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| **From** | **Apr 2012** | **To** | **Present** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Uncompensated Period** |
| **For three months, pursued a career position full-time while performing systems administration for Windows, GNU/Linux, and networking at home plus several *pro bono* engagements for a people of merit.** |

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| **From** | **Apr 2012** | **To** | **Apr 2012** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **CompWorks, Inc.** | **Telephone** | **(610) 530-5000** |
| **Address** | **1390 Ridgeview Drive, Allentown, PA, 18104** |
| **Position** | **Programmer III** | **Supervisors** | **TBD** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **As a W-2 employee of CompWorks for their client Pennsylvania State Department of Corrections, performs part-time systems programming as needed for a mainframe running VM, VSE, and CICS.** | **[confidential]** |

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| **From** | **Jul 2011** | **To** | **Apr 2012** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Uncompensated Period** |
| **For nine months, pursued a career position full-time while performing systems administration for Windows, GNU/Linux, and networking at home plus several *pro bono* engagements for a people of merit.** |

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| **From** | **May 2011** | **To** | **Jul 2011** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Panzer Solutions LLC** | **Telephone** | **(203) 971-8359** |
| **Address** | **45 Stuart Ave, K , Norwalk, CT, 06850** |
| **Position** | **Mainframe Consultant** | **Supervisors** | **Sasha Savransky (client)** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **As a W-2 employee of Panzer for their indirect client New York Life Insurance Company, developed plans and began testing an approach to replacing TELNET and FTP usage with SSH by most NYLIC z/OS production systems, plus assisted non-mainframe team members with planning the company-wide project.** | **[confidential]** |

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| **From** | **Feb 2011** | **To** | **May 2011** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Uncompensated Period** |
| **For three months, pursued a career position full-time while performing systems administration for Windows, GNU/Linux, and networking at home plus one *pro bono* engagements for a person of merit.** |

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| **From** | **Nov 2010** | **To** | **Feb 2011** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **IBM Corporation** | **Telephone** | **(800) 796-9876** |
| **Address** | **700 Locust Street , Dubuque , IA , 52001**  |
| **Position** | **SMI-Jazz, ITD Technical Services** | **Supervisors** | **B.C. Ray** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Learned internals of CLAS security administration system and began support thereof. Responded to problem tickets as appropriate including system analysis, defect detection, and remediation. Provided proactive (senior level) support and mentoring of less skilled technicians. Note that I held maximum security authorizations on most IBM internal production mainframe systems (z/OS, z/VM, and zLinux) in the western hemisphere.** | **[confidential]** |

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| **From** | **Nov 2009** | **To** | **Nov 2010** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Uncompensated Period** |
| **For twelve months, pursued a career position full-time while performing systems administration for Windows, GNU/Linux, and networking at home plus several *pro bono* engagements for people of merit.** |

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| **From** | **Feb 2006** | **To** | **Nov 2009** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Realistic Computing, Inc.** | **Telephone** | **(410) 744-8144** |
| **Address** | **4 West Rolling Crossroads, Suite 13, Baltimore, MD 21228** |
| **Position** | **Senior Systems Programmer** | **Supervisors** | **Sequoia Ramsey** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **February 2006—November 2009: Under contract to the City of Baltimore, supported 24/7 (mostly as the only systems programmer) and maintained several IBM mainframes (9121, 2003, and 7060) running VM/ESA, VSE/ESA, and CICS/ESA. This did not include applying patches as the software portfolio was unsupported by the vendors. Handled administration of ALERT/VSE security package, CA-DYNAM-T, CA-DYNAM-D, FAQS/ASO, and other miscellaneous third-party software. Monitored system performance using JARS, McKinney RTM, and VMPRF. Interfaced with IBM CE on all IBM hardware matters. Shared support of TCP/IP printing infrastructure with Rochester Software Associates (RSA) running RSA MPrint and QDirect software on Sun SPARC Solaris servers. Supervised the training and work of a part-time backup systems programmer off and on. Worked with IBM business partner to develop requirements for upgrading to a z10 BC platform to run z/VM, z/VSE, and CICS/TS.** | **[confidential]** |

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| **From** | **Sep 2001** | **To** | **Feb 2006** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Uncompensated Period** |
| **From 46 months, I focused primarily on family matters. During this time I spent much time at the private school my sons attended, performing substitute teaching for kindergarten through 12th grade, coaching the school’s two chess teams, and providing *pro bono* support for the administrative computer systems running Windows. Since January 2005 I had also been working part-time as a Crew Member at Trader Joe’s grocery store in Gaithersburg, Maryland.** |

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| **From** | **Oct 2000** | **To** | **Sep 2001** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **America Online, Incorporated** | **Telephone** | **(703) 265-1000** |
| **Address** | **22110 Pacific Drive, Dulles, VA 20166** |
| **Position** | **Senior Systems Analyst** | **Supervisors** | **Mark E. Sunderlin** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **October 2000—September 2001: Performed maintenance and development in C and Perl of a highly confidential statistical analysis system running on HP/UX systems that summarized daily AOL network usage.**  | **[confidential]** |
| **Classes While Employed By AOL** |
| **Start** | **End** | **Duration** | **Subject** | **Institution** | **Location** |
| **Dec 2001** | **Dec 2001** | **1 week** | **Perl Workshop** | **Learning Tree** | **Reston, VA** |

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| **From** | **Feb 2000** | **To** | **Oct 2000** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Uncompensated Period** |
| **For eight months, pursued a career position full-time while performing systems administration for Windows, GNU/Linux, and networking at home plus several *pro bono* engagements for people of merit.** |

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| **From** | **Jan 1990** | **To** | **Feb 2000** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Keane Inc. (originally AGS, was bought by Keane)** | **Telephone** | **(703) 848-7200** |
| **Address** | **1410 Spring Hill Rd # 500, McLean, VA 22102** |
| **Position** | **Senior Consultant (W-2 basis)** | **Supervisors** | **Dee Steeley, Ruth Saunders** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **September 1999—February 2000: Unassigned and unbillable** | **[confidential]** |
| **April 1999-August 1999: Performed development on several Bell Atlantic mainframe logistics applications in COBOL II using IMS and DB2.** | **[confidential]** |
| **May 1993–March 1999: Performed product development, technical support, and system and network administration for Group 1 Software, Inc. in Lanham, MD involving UNIX and Windows NT platforms using Micro Focus COBOL, C, and C++, plus InstallShield 3 and 5.1 (including DEC Alpha support) and standard UNIX and FSF tools. Developed interface modules between the core product applications and the platform environments, installation packaging and documentation, and CD-ROM and DAT mastering procedures. Flew to countless customer sites to resolve technical difficulties and otherwise save accounts. Presented technical material to customers in sessions at three Group 1 Users’ Conferences as well as providing Level 2 and marketing support as needed.****Abruptly took on the UNIX and TCP/IP networking administration in February 1996 for nine months, supporting the final stages of the project establishing Group 1’s Web site and Internet T-1 connection. Systems supported included Windows NT Intel and Alpha servers, IBM RS/6000s running AIX 3 and 4, an HP 9000 running HP/UX 9.04, SCO on Compaqs, a DG Aviion running DG/UX with a Clariion RAID unit, a SPARCStation 5 running Sun/OS 4 and Solaris 2, an SGI Indy running IRIX 5 and 6, an HP 3000 running MPE/iX, and a VA Research Pentium server running first Linux, then BSD/OS that served as the firewall / application proxy / DNS, sendmail, FTP, and Web server (Apache), as well as a Cisco 2501 router. Performed numerous OS installs and upgrades, PC hardware maintenance, and LAN/WAN performance analysis and troubleshooting.****Received a wall plaque commemorating contributions to Group 1 UNIX business objectives in April 1994 at the company’s annual awards banquet (the only time in the company’s history a contractor had been so honored).** | **[confidential]** |
| **Apr 1993–May 1993: Contributed significantly to the development of a successful response by AGS Information Services to a mainframe database migration RFP.** | **[confidential]** |
| **Nov 1992–Mar 1993: Developed a SCSI (ASPI) device driver and higher level application logic in MASM and C Set/2 for OS/2 Release 2 to manage a high speed scanner in support of an IBM/FSD operational capabilities demonstration (OCD) in Gaithersburg, MD for a Social Security Administration RFP.** | **[confidential]** |
| **Aug 1992–Oct 1992: Developed an approach for the National Geographic Society in Rockville, MD to modernize the data communications components of several elementary school products, including an analysis of the potential of the Internet.** | **[confidential]** |
| **May 1992–Jun 1992: Assisted IBM/FSD and AT&T in Manassas, VA with the final stages of developing their response to a major US Army RFP for UNIX computing and networking facilities.**  | **[confidential]** |
| **Nov 1991–Apr 1992: Assisted the NASDAQ Stock Market in Rockville, MD with its network outsourcing RFI and RFP solicitation project. Defined the requirements for network management using SNMP and assisted with LAN/WAN network modeling using COMNET-II.5 and Bones. Also managed an RBBS dial-up bulletin board system for bidder communication.** | **[confidential]** |
| **AGS/Keane history continues on the next page...** |
| **AGS/Keane History [continued]** |
| **Jul 1991–Sep 1991: Developed a logging/tracing facility in Motorola 68000 assembler and C for a magnetic tape recertification application developed on an HP/UX system for the National Security Agency (NSA) in Columbia, MD. The application featured Motif user interfaces and multi-system client server architecture.** | **[confidential]** |
| **Jan 1990–Jul 1991: Performed software product build and integration for IBM/ASD in Bethesda, MD under MVS/ESA and VM/ESA using SMP/E, S/370 Assembler, Rexx (VM and MVS), and OS/2 EE Release 1.2. Involved in planning, research, documentation (BookMaster), and customer support. Developed tools, standards, and procedures that dramatically improved throughput and accuracy of the packaging processes, and trained the client staff to use them.** | **[confidential]** |
| **Classes While Employed by AGS/Keane** |
| **Start** | **End** | **Duration** | **Subject** | **Institution** | **Location** |
| **Jul 1992** | **Jul 1992** | **1 week** | **UNIX System Administration** | **Learning Tree** | **Reston, VA** |
| **Mar 1992** | **Mar 1992** | **1 week** | **Network Modeling** | **CACI** | **Roslyn, VA** |

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| **From** | **Jan 1989** | **To** | **Jan 1990** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **ARINC Research, Inc.** | **Telephone** | **(410) 266-4000** |
| **Address** | **2551 Riva Road, Annapolis, MD, 21401** |
| **Position** | **Principal Analyst** | **Supervisors** | **Wally Miller** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Maintained and enhanced the AUTODIN Intersite Gateway software of the Air Force Logistics Command, a project written in C and documented using nroff that interconnected AUTODIN II, Ethernet, and X.25 circuits and ran on Gould Concept/32 and PowerNode 6000 hardware under UTX/32. Provided network troubleshooting expertise and developed numerous enhancements using Bourne shell scripts, awk, sed, as well as C programming, including the design of a new facility based upon Berkeley Sockets. Researched, designed, and implemented a fiber optic circuit to extend serial port services. Participated in a major RFP by providing MVS, SNA, and TCP/IP technical expertise and significant written deliverables.** | **[confidential]**  |

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| **From** | **Sep 1988** | **To** | **Jan 1989** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Computer Associates, International** | **Telephone** | **(703) 708-3000** |
| **Address** | **575 Herndon Parkway, Herndon, VA, 22070** |
| **Position** | **Senior Product Engineer** | **Supervisors** | **Barry Walker** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **As part of a rewrite of CA-FastDASD, an MVS DASD/storage director performance analysis product, designed, developed, and tested a 3880 model 23 and 3990 model 3 cache data collection subtask. Written entirely in S/370/XA Assembler, this enhancement was successfully tested under MVS/XA and MVS/ESA. Characteristics of the software included Format 1 channel programs, use of STARTIO, an I/O second level interrupt handler (SLIH) disabled interrupt exit (DIE), and SRB-mode routines. Reviewed the design of hooks into the MVS I/O Supervisor for the main task of the product and performed debugging of those hooks using VM/XA SP 2.** | **[confidential]** |

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| **From** | **Apr 1988** | **To** | **Sep 1988** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Uncompensated Period** |
| **For five months, pursued a career position full-time.** |

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| **From** | **Nov 1984** | **To** | **Apr 1988** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Network Solutions, Inc.** | **Telephone** | **(703) 742-0400** |
| **Address** | **505 Huntmar Park Drive, Herndon, VA, 20170** |
| **Position** | **Lead Software Engineer** | **Supervisors** | **Will McDuffie** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Served as chief developer of DDN/MVS (later renamed Open-Link For IBM/MVS), a sophisticated package of over 50,000 lines of code written almost entirely in S/370 Assembler based upon the public domain UCLA ARPANET Control Program that interfaced MVS/VTAM environments to TCP/IP networks. Designed and implemented an SMTP server, an API to User FTP, significant enhancements to the BBN 1822 (IMP) HDH line driver, FTP throughput enhancements, and a Server TELNET interface to SIM3278/VTAM. Developed a configuration management system using CMS Rexx and taught junior systems engineers how to customize and install the product. Served as Chairman of SHARE, Inc.’s VM Group Passthru Committee for one year.** | **[confidential]** |
| **Classes While Employed By Network Solutions** |
| **Start** | **End** | **Duration** | **Subject** | **Institution** | **Location** |
| **Apr 1985** | **Apr 1985** | **1 week** | **Military Data Communications (SECRET)** | **AFCEA Education** | **Adelphi, MD** |

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| **From** | **Nov 1983** | **To** | **Oct 1984** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Computer Sciences Corp.** | **Telephone** | **(301) 937-0760** |
| **Address** | **4600 Powder Mill Road, Beltsville, MD, 20705** |
| **Position** | **Computer Scientist** | **Supervisors** | **David Henry** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **For the Orbit Computation System at the NASA Goddard Space Flight Center, performed systems software support on two NAS AS/8040 CPUs running VM/SP, MVS/SP, and OS/MVT, and two Amdahl 4705 Communications Processors running EP/VS with the CommPro PP04 Network Facilities Package. Supervised installation of VM/SP SIPO/E Release 2.1 when the first CPU was installed, then personally installed same on the second CPU three months later. Program Products included RSCS Networking R3.0, IPCS/E R2.0, IPF R4.0, ISPF R1.0, ISPF/PDF R1.0, DIRMAINT R2.0, VMAP R3.5, SMART R1.2, VS FORTRAN R2.0, and the VS PL/I Transient Library R4.0. When management was unable to hire a specialist, voluntarily assumed responsibility for the FEPs, teaching myself the hardware, software, and configuration. Maintained the installed software, including ten CP configuration changes, two EP configuration changes, the installation of PUT 8307, three CP APARs, and one local enhancement to CP (for CommPro support). Troubleshot countless incidents while performing onsite support duties, including critical support periods during the launch and reentry phases of several Space Shuttle missions. Received a Certificate of Appreciation from NASA for “exceptional service.” Participated in the System Management Project of SHARE, Inc., notably in the development of five major requirements dealing with stand alone utilities. Planned the installation of VM/SP Release 3.1 at PUT 8402 service level.** | **[confidential]** |

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| **From** | **Sep 1982** | **To** | **Oct 1983** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **COMNET Corp.** | **Telephone** | **(301) 731-2500** |
| **Address** | **4200 Parliament Place, Lanham, MD 20706** |
| **Position** | **Senior Systems Programmer** | **Supervisors** | **Tom Freland, Tom Kenton** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Handled primary development and maintenance responsibility for ALPHA, COMNET’s proprietary alternative to TSO, as well as secondary responsibility for the in-house computer usage accounting and system security software, all written in S/370 Assembler and running in a multi-CPU, shared DASD MVS environment. Designed numerous system enhancements, including a “software bus” network, modified user SVC routines, performed extensive system dump analysis, provided technical support, and developed and instructed a class on VM technical concepts.** | **[confidential]**  |
| **Classes While Employed By COMNET** |
| **Start** | **End** | **Duration** | **Subject** | **Institution** | **Location** |
| **Sep 1983** | **Sep 1983** | **2 days** | **SMP/E Migration** | **IBM Training Center** | **Crystal City, MD** |
| **Jul 1983** | **Jul 1983** | **1 week** | **CP Internals** | **Amdahl Education** | **Columbia, MD** |
| **Oct 1982** | **Oct 1982** | **1 week** | **CMS Internals** | **Amdahl Education** | **Columbia, MD** |

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| **From** | **Sep 1980** | **To** | **Aug 1982** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Johnson Systems, Inc.** | **Telephone** | **N/A** |
| **Address** | **(acquired by Computer Associates, International)** |
| **Position** | **Software Specialist** | **Supervisors** | **Dick Bunyan** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Engineered operating system interface software for use in CMS, MVS, OS/VS1, and DOS/VSE environments, including all phases of development from concept to code (S/370 Assembler), internal and external documentation (DCF), and significant enhancements to the company’s software development standards using CMS EXECs and EDGAR. Designed a testing methodology that included an interpretive test driver, then, as project leader for a group of five technicians, developed same. Designed a report writer facility while participating in high level discussions for a redesign of the JARS package. Enhanced the APEX product to generate User SMF records. Participated in formal inspections of external designs, internal designs, code, and test cases as an author, inspector, reader, and moderator.** | **[confidential]**  |

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| **From** | **Apr 1979** | **To** | **Sep 1980** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Fairchild Industries, Inc.** | **Telephone** | **(301) 428-6000** |
| **Address** | **20101 Century Boulevard, Germantown, MD, 20767** |
| **Position** | **Senior Systems Programmer** | **Supervisors** | **Moshe Abarbanel** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Performed system programming for the corporation’s IBM S370/155 running OS/MVT/HASP/RJE/TSO. Performed all SYSGENs and maintenance using SMP, including the installation of many local modifications to MVT and HASP which resulted in dramatic throughput and response time improvements. Responsible for troubleshooting all abnormal system conditions, analysis of system dumps, and technical support to a user community of engineers and MIS personnel. Participated in the installation of an IBM 4341-2 CPU running VM/370 Release 6 with BSEPP in a shared DASD and tape environment, including SCP generation, user training and support, and the planning of hardware configurations and layouts.**  | **[confidential]** |
| **Education while at Fairchild on next page** |
| **Classes While Employed By Fairchild** |
| **Start** | **End** | **Duration** | **Subject** | **Institution** | **Location** |
| **Sep 1980** | **Dec 1980** | **1 semester** | **Introduction To Microprocessors** | **Montgomery College** | **Germantown, MD** |
| **May 1980** | **May 1980** | **1 week** | **VM/370 Advanced Topics** | **IBM Training Center** | **New York, NY** |
| **Apr 1980** | **Apr 1980** | **2 days** | **SMP 4** | **IBM Training Center** | **Crystal City, VA** |
| **Apr 1980** | **Apr 1980** | **1 week** | **VM/370 Installation** | **IBM Training Center** | **New York, NY** |

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| **From** | **Aug 1978** | **To** | **Apr 1979** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **General Electric Information Services Company** | **Telephone** | **(301) 340-4000** |
| **Address** | **401 North Washington Street, Rockville, MD, 20850** |
| **Position** | **Systems Analyst** | **Supervisors** | **Bob Jessup** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Performed system software maintenance using SMP R3.8 for the service bureau’s IBM 3033 and S370/158 running MVS/JES2 under VM/370 Release 3 being used to develop GEISCO’s Mark 3000 commercial timesharing service. Performed a full MVS SYSGEN, installed four SUs including MVS/SE and RACF, applied two PUT tapes, interfaced with the PSR in regards to MVS maintenance, and supervised two trainees in the packaging and installation of numerous local PTFs, including UCC-1, JTIP, LOOK, SMF exits, and major enhancements to RACF, JES2, TCAM, and TSO.** | **[confidential]** |
| **Classes While Employed By GEISCO** |
| **Start** | **End** | **Duration** | **Subject** | **Institution** | **Location** |
| **Sep 1978** | **Sep 1978** | **2 weeks** | **MVS For Systems Programmers** | **IBM Training Center** | **Crystal City, VA** |

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| **From** | **Nov 1977** | **To** | **Jul 1978** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **COMNET Corp.** | **Telephone** | **(301) 731-2500** |
| **Address** | **4200 Parliament Place, Lanham, MD 20706** |
| **Position** | **Systems Programmer** | **Supervisors** | **David Marcus** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Performed system software maintenance and troubleshooting of the service bureau’s IBM S370/168, S360/50, ITEL AS/6, AS/4, and three S360/65s, all running COMNET’s highly modified MVT/HASP/RJE with ALPHA, COMNET’s proprietary alternative to TSO, conversation batch jobs, and proprietary security software based on SHARE requirements that resulted in RACF. All systems were loosely coupled with CTCAs and shared disk/tape. Performed extensive system dump analysis, troubleshooting of abnormal system states, and software maintenance including an I/O GEN and developing several enhancements to UCC-1, HASP, and ALPHA.** | **[confidential]** |

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| **From** | **May 1977** | **To** | **Nov 1977** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Binary Associates** | **Telephone** | **N/A** |
| **Address** | **[defunct]** |
| **Position** | **Partner** | **Supervisors** | **N/A** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Performed facilities management for the Sun Life Insurance Company of Maryland in Baltimore for an HP 3000 with the APL microcode running MPE II and the APL interpretive compiler. Supervised the machine’s installation, developed and documented operational procedures, handled daily operations, provided technical support to a sophisticated user community of actuaries and estate planners, interfaced with vendors on technical issues, and performed troubleshooting of abnormal system states. Wrote a program in ALC using PIOCS on an IBM S370/145 running DOS/VSE/POWER to feed HP print files dumped to tape to be printed on the IBM.** | **[confidential]** |
| **Classes While Employed By Binary Associates** |
| **Start** | **End** | **Duration** | **Subject** | **Institution** | **Location** |
| **Jul 1977** | **Jul 1977** | **1 week** | **MPE-II Special Capabilities** | **HP Training Center** | **Rockville, MD** |
| **Jul 1977** | **Jul 1977** | **1 week** | **Systems Programming Language** | **HP Training Center** | **Rockville, MD** |

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| **From** | **Oct 1975** | **To** | **May 1977** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Planning Research Corp.** | **Telephone** | **(703) 556-1500** |
| **Address** | **1500 Planning Research Drive, McLean, VA, 22102** |
| **Position** | **Systems Programmer** | **Supervisors** | **Bill Gittins, Moshe Abarbanel** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Oct 1976–May 1977: Performed systems programming for the NASA Goddard Space Flight Center Management Systems Office in Greenbelt, MD supporting a S360/50 system running MVT/HASP/RJE/TSO. Installed TMS (UCC-1), wrote several utility programs in ALC, and performed system troubleshooting and maintenance.** | **[confidential]** |
| **Mar 1976–Oct 1976: Ported COBOL and FORTRAN applications from a Xerox Sigma to the PRC service bureau’s S370/155 system running MVT/HASP/RJE/TSO for the National Education Computer Center, Inc. in Washington, DC, including supervising two programmer trainees.** | **[confidential]** |
| **Oct 1975–Feb 1976: Ported applications written in ALC from an RCA Spectra to an IBM S370/158 running OS/SVS/HASP/TSO for the Marriott Corp. in Bethesda, MD.** | **[confidential]** |

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| **From** | **Sep 1974** | **To** | **Oct 1975** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Computer Data Systems, Inc.** | **Telephone** | **(301) 921-7000** |
| **Address** | **1 Curie Court, Rockville, MD, 20852** |
| **Position** | **Member of the Technical Staff** | **Supervisors** | **John Samuel** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Feb 1975–Oct 1975: Served as lead technician on a project for the National Credit Union Administration written in COBOL on the DOJ S370/155 running MVT/HASP/RJE.** | **[confidential]** |
| **Sep 1974–Jan 1975: Developed two programs in ALC to analyze census data on an IBM S370/145 running DOS/VSE/POWER.** | **[confidential]** |

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| **From** | **Nov 1972** | **To** | **Sep 1974** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Planning Research Corp.** | **Telephone** | **(703) 556-1500** |
| **Address** | **1500 Planning Research Drive, McLean, VA, 22102** |
| **Position** | **Operator, Shift Supervisor** | **Supervisors** | **Don Pfalgraf, Mike Putro** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Started as an operator trainee on a IBM S370/155 (non-DAT) running MVT/HASP/RJE/TSO for PRC’s commercial service bureau. Promoted to supervisor after 10 months overseeing the complex of four different business operations and a staff of 17 operators and production control specialists.** | **[confidential]** |

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| **From** | **Jul 1972** | **To** | **Aug 1972** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Employer** |
| **Name** | **Analysis and Programming Corp.** | **Telephone** | **N/A** |
| **Address** | **[defunct]** |
| **Position** | **Operator** | **Supervisors** | **Mike Miller** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **3rd shift operation of batch processing DOS system running on an IBM S360/30 under school work/study program.** | **[confidential]** |

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| **From** | **Mar 1972** | **To** | **Nov 1972** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **Computer School** |
| **Name** | **Computer Learning Center, Inc.** | **Telephone** | **(703) 359-9333** |
| **Address** | **[closed, records not available, but I have my diploma] Seven Corners, VA** |
| **Position** | **Student** | **Supervisors** | **Jess Brown, Special Mentor** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **From Feb 1972 to Nov 1972, pursued full-time (25 classroom hours weekly) “Computer Programming and Systems Analysis” curriculum including Fundamentals, COBOL, FORTRAN, Assembler, and Systems Analysis (served as team lead). Produced a portfolio of complete documentation for all projects. Devised and produced an Honors project that re-invented infinite precision to calculate the value of *e* out to 100 decimal places. All work was performed on the school's IBM S/360 Model 22 which ran DOS in 16 KB of core memory. Also took extracurricular instruction and became authorized to operate the computer and the Model 029 card punches. When not working at APC, came in at 11 PM when the night school closed to run through all the backlog, then use the facilities for my own learning tasks. I also tutored a couple of my fellow students who also graduated.** | **Graduated, Technical Degree with Honors, 4.0 GPA.** |

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| **From** | **Dec 1967** | **To** | **Feb 1972** | **Start** | **[confidential]** | **Finish** | **[confidential]** | **Last Increase** | **[confidential]** |  |
| **Poorly Compensated Period** |
| **For 51 months, pursued several unsatisfactory jobs including serving as a live-in housekeeper, working in a factory, driving a taxicab, laboring in a landscaping business, and working as an auto mechanic.** |

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| **From** | **Sep 1967** | **To** | **Dec 1967** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **School** |
| **Name** | **Montgomery College** | **Telephone** | **(301) 279-5000** |
| **Address** | **51 Mannakee Street, Rockville, MD, 20850** |
| **Position** | **Student** | **Supervisors** | **N/A** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Studied as a full-time student in a Music Performance curriculum as a voice major leading to an Associate of Arts degree.** | **Dropped out after losing motivation.** |

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| **From** | **Sep 1964** | **To** | **Jun 1967** | **Start** | **N/A** | **Finish** | **N/A** | **Last Increase** | **N/A** |  |
| **School** |
| **Name** | **Walt Whitman Senior High School** | **Telephone** | **(301) 320-6600** |
| **Address** | **7100 Whittier Blvd., Bethesda, MD, 20817** |
| **Position** | **Student** | **Supervisors** | **N/A** |
| **Description of Duties** | **Reason For Leaving/Change** |
| **Studied as a full-time student in a college preparatory curriculum.** | **Graduated, Academic Diploma.** |