

## Joseph D. Kulisics

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### Objective:

Employment as an intern, project assistant, or research assistant in a laboratory, academic computing facility, or highly technical private enterprise.

### Work History:

#### Programmer/Analyst III

University of California at Los Angeles, SEASnet

Los Angeles, CA

December 2000 – September 2003

Administered databases of student information hosted by Informix 7.24 SE RDBMS. Documented operations for existing databases. Performed routine updates of databases. Conducted analysis of existing database designs and applications. Planned replacement of databases and related applications. Designed databases performing normalization of initial relations. Wrote scripts and programs to migrate data from existing databases to new databases. Ported existing database applications to new databases. Managed user access to databases. Handled user problems with databases. Developed CGI interfaces to databases using PHP and PERL.

#### Programmer/Analyst II

University of California at Los Angeles, Laboratory of Neuro Imaging

Los Angeles, CA

April 1999 – December 2000

Headed development of prototype Laboratory of Neuro Imaging Process Construction Environment Java 1.1.x graphical user interface for the construction of data analysis processes intended to simplify researcher interaction with analysis tools and computing resources. Considered specification, design, implementation, and analysis of all phases of prototype project. Organized and led design meetings preparing specification of prototype Process Construction Environment. Programmed principal parts of prototype Process Construction Environment. Directed programming work of all programming staff assigned to prototype project. Wrote programs simplifying user interaction with analysis and data processing tools. Administered 32-processor Origin 2000 Reality Monster server. Administered approximately 30 SGI Irix 6.x O2 workstations used for data and image processing related to visualization for research in neurology. Performed routine account maintenance in NFS/NIS distributed computing environment. Performed backups using Legato Networker backup software. Prepared operational and end-user documentation. Supervised work and training of student-hourly computer operators.

#### MIS Administrator

JWT Specialized Communications

Los Angeles, CA

August 1997 – April 1999

Administered WAN of approximately 30 SCO OpenServer 5.0.x nodes providing file, print, and application services to approximately 300 users. Performed routine account maintenance. Acted as point-of-contact with frame-relay service provider during problem resolution and initial configuration of new links. Programmed Cisco 1601 routers running IOS 11.1. Administered BootP, UUCP, BIND, and Sendmail. Designed, wrote, and deployed administrative tools in sh, PERL, and Tcl scripting languages. Wrote CGI tools in PERL and C/C++ to access administrative and user information through company intranet. Wrote Java 1.1 and C/C++ programs to augment administration and support capabilities. Wrote network monitoring utility using C++ and System V TLI. Provided advanced support of networking, server, and end-user problems. Prepared plain-text and HTML documentation. Deployed MySQL database server for development of user maintenance and operational utilities and designed databases for the management of operational information. Wrote utilities using SQL for end-user and support interaction with production operational databases. Designed and collaborated in implementation of basic SGML document management system based on Amsterdam SGML parser and MySQL database server. Analyzed documents used in production of web and print advertising materials to develop DTD for content markup and management. Developed plain TeX macros for print production of advertising materials modifying TeX page output routines creating custom, two-column format. Integrated SGML document management system with TeX print production macros and web service by construction of FOSI instructions targeting HTML and TeX from advertising materials DTD. Performed hardware upgrades to IBM PC-compatible server hardware. Provided basic administrative support of Windows NT Server 4 in absence of Windows NT administrator.

**Quality Assurance Inspector**  
**Databeam, Inc.**

**Madison, WI**  
**March 1997 – July 1997**

Tested and evaluated builds of video communications software based on H.324 video communications standard. Maintained and replaced hardware and software for IBM PC-compatible platforms used in testing of video communications software. Installed and maintained Windows 95 in support of software testing. Executed and modified test scripts for software under evaluation. Determined minimum conditions of failure in event of fault detection in tested builds of software. Reported findings to software engineering for correction, recompilation, and further quality assurance evaluation.

**Technical Support Specialist**  
**Softmart, Inc.**

**Madison, WI**  
**March 1996 – February 1997**

Supported Windows 95 operating environment for Microsoft Windows 95 launch partner. Answered end-user questions via telephone concerning all aspects of Windows 95 operating environment. Examined and repaired problems originating with Windows 95 operating environment including but not limited to upgrade, installation, configuration, printing, networking, and dial-up networking. Supported applications bundled with Windows 95 operating environment including but not limited to DriveSpace compression, Exchange mail client, and Windows 95 bundled fax software. Supported Netscape Navigator, Internet Explorer, and various e-mail clients on IBM PC-compatible hardware in Windows 95 operating environment for dial-up users of major ISP. Reported suspected POP server problems to ISP NOC.

**System Administrator/Programmer**  
**University of Wisconsin–Madison, Computer Systems Laboratory**

**Madison, WI**  
**April 1995 – January 1996**

Monitored backups of data of Department of Computer Science instructional and research computers. Performed routine administration and troubleshooting of problems in Solaris 2.x, HP-UX 9, and HP-UX 10 operating environments. Scripted administrative utilities in sh and ksh scripting languages. Created routine C/C++ programs commensurate with administrative needs. Maintained Netware 3.12 servers for instructional computing use.

## **Education:**

**University of California at Los Angeles**  
Studied graduate computer science.

**Los Angeles, CA**  
**2003 – Present**

**AB, Mathematics**  
**University of Chicago**

**Chicago, IL**  
**1987 – 1991**

Completed liberal arts curriculum emphasizing mathematics.

## **Technical Skills:**

- Basic HTML,  $\text{\TeX}$ , and  $\text{\LaTeX}$  document preparation.
- Basic document analysis, DTD design and analysis, and SGML document preparation.
- Scripting in sh, ksh, csh, PERL, PHP, and Tcl.
- Programming in FORTRAN 77 and Fortran 90/95.
- Applet and application development in Java 1.x.
- Programming in C/C++ including use of System V IPC and TLI.
- Programming in Scheme.
- Relational database design and programming in SQL.
- Basic knowledge of assembler programming.
- Configuration and administration of commercial UNIX operating environments including SGI Irix 6.x, Sun Solaris 8, Sun Solaris 7, Sun Solaris 2.x, and SCO OpenServer 5.0.x.
- Configuration and administration of freeware UNIX-like operating environments including Linux and Free-BSD.
- Installation, configuration, and administration of Windows 95 and Windows NT Server and Workstation 4 operating environments.
- Knowledge of computing concepts and technologies and demonstrated competence to learn new concepts as required.