

OVERVIEW

I am a talented programmer and system administrator with experience in a wide variety of languages and platforms, but specializing in C and Unix. I am seeking a position performing system-level, imaging, graphics, or other interesting programming tasks as well as system or network administration duties. I have a proven ability to work well with clients through all stages of a project, from gathering specifications through testing and maintenance.

I am proficient in Unix (20 years), C (20 years), Perl (12 years), SQL (7 years), C++ (5 years), with some experience in several other languages, including Java, JavaScript, Awk and Tk/Tcl. I have extensive TCP/IP networking and Unix system administration experience on Debian/Ubuntu GNU/Linux (15 years), Red Hat Enterprise Linux and derivatives (10 years), Sun Solaris (10 years), and IBM AIX (3.5 years), with some sysadmin experience on several other platforms, including Mac OS/X and Microsoft Windows. I am experienced in administering numerous common applications, including Apache, MySQL, BIND, and Sendmail.

EDUCATION

University of Nebraska - Lincoln

Completed a **Master of Science** in Computer Science. Graduated in December 2004 with a cumulative GPA of 3.72. Thesis work developed new comparative visualization techniques for two-dimensional gas chromatography data. The implementation was integrated into a large Java application being developed with other programmers at GC Image, LLC. My thesis is available in PDF form at <http://www.jedi.com/obiwan/thesis.pdf>. This work was also published in the *Journal of Chromatography A* and in the proceedings of the International Symposium on Capillary Chromatography and Electrophoresis.

Completed a **Bachelor of Science** in Computer Science with a minor in Electrical Engineering. Graduated in May 1994 with a cumulative GPA of 3.3. Made Dean's List four of last five semesters.

As a graduate research and teaching assistant January 1994 – May 1996, developed new algorithms for use by USGS technicians to identify clouds in multispectral Landsat satellite images. This research was presented at and published in the proceedings of the SPIE Image Spectrometry conference. Also assisted in research and development of graph matching algorithms implemented on massively parallel architectures for the 3rd DIMACS Challenge.

Led the programming team which took first place at the 1993 ACM Regional Collegiate Programming Contest for the north central region of the US and competed at the 1994 International Programming Contest finals. Also on the team that took second in the 1994 regionals and competed in the 1995 finals.

ACM involvement: UNL student chapter member for five years, during which I held the offices of chairman, vice-chair, and treasurer; international member 1990-99; SIGGRAPH member 1993-99.

WORK

Design Data Lincoln, NE

Programmer / Analyst, September 2008 – present

Worked with a team of dozens of programmers to create a large software package for structural steel detailing and modeling. Responsible for converting native data formats into industry standard file formats including IFC, DGN, and CIS/2. Helped improve 3D geometry libraries used by all in-house programmers. Specilized in improving documentation and readability of existing code.

BryanLGH Medical Center Lincoln, NE

Systems Programmer, January 2005 – August 2008

Helped lead a team of people responsible for Unix system administration, network security, database administration, storage area networks, and enterprise infrastructure design for a 3000-node, multi-campus network of Linux, AIX, VMS, and Windows servers; SAN storage; and desktop workstations.

Internet Nebraska, Inc. Lincoln, NE

Co-founder / Vice President / System Administrator, June 1994 – August 2011

Took part in decisions that created and helped shape the growth of the company that is now the largest Nebraska-based Internet service provider. Responsible for general Unix system and network administration while specializing in management of Usenet news, electronic mail, DNS, terminal server administration, and hardware maintenance. Performed technical support for customers via phone.

GC Image, LLC Lincoln, NE

Programmer, July – December 2004

Worked with other programmers to create a large Java application for the analysis of comprehensive two-dimensional gas chromatography (GC×GC) data. Developed an innovative new method for interactive 3D viewing and change detection between multiple datasets. The bulk of my work was the implementation of concepts resulting from my masters thesis research (see EDUCATION).

Nebrask@ Interactive, Inc. Lincoln, NE

Senior Programmer / System Administrator, October 1996 – May 2003

Promoted from Programmer to Senior Programmer in January 2002. Worked with state agency personnel to develop C, Perl, and HTML applications to modify numerous large databases (Informix, MySQL, Oracle), interface with mainframe applications via SNA, and provide access to that data via WWW interfaces. Wrote low-level daemons, utilities and libraries used by other programmers. Performed system administration and hardware maintenance duties for a network of servers and workstations running Solaris and Linux as well as desktop PC's running Windows. Managed networking equipment for office LAN, dialup modem bank, and several frame relay connections to different locations. Performed performance analysis and capacity planning for office computer and networking resources. Developed security policies and disaster recovery procedures for office computer systems. Mentored junior programmers. Advised non-technical management staff on technical decisions while reporting directly to the General Manager. Performed technical support for office staff and customers.

Hickman-Kenyon Systems, Inc. Omaha, NE

Senior Programmer / Analyst, May 1996 – October 1996

Wrote portions of a large medical patient tracking application in Objective C and the OpenStep graphical environment for NeXT and Windows NT machines. Performed Unix system administration tasks both in-house and while contracted to customer sites, including UNMC.

MicroImages, Inc. Lincoln, NE

Software Engineer, October 1989 – January 1994

Wrote and maintained several large, X/Motif-based C programs which were integrated with others into a single mapping / image processing software package. Also wrote low-level drivers for XY digitizers and various routines which were integrated into large function libraries used company-wide. Programming environment was a network of PC's running DOS; Unix workstations from Sun, SGI, HP, IBM, DEC, Data General, Okidata, and SCO; and a Macintosh running A/UX.

References are available upon request.