

NAME Sam G. Noble

ADDRESS 3824 SE Ogden St.
Portland, OR 97202

telephone: (503) 753-5010
electronic mail: nobles@reed.edu
world wide web: <http://www.reed.edu/~nobles>

TECHNICAL SKILLS

Programming Languages: C, C++, Java, PERL, UNIX Shell.

Software Experience: Netatalk, LPRng, Qmail, Samba, BIND, DJBDNS, Apache, Sendmail.

EDUCATION

January 2002 Bachelors Degree, Mathematics: REED College (Portland, OR).
Thesis Title: *Turning Images into Simple Line Art*, Topic: Image Processing

Implemented several image processing algorithms (multiple edge detectors, skeletonization, and curve segment reconstruction from discrete points) in Java using the Swing toolkit for graphical elements.

COURSE WORK

Course List Real Analysis, Linear Algebra, Abstract Algebra, Elementary Number Theory, Algebraic Number Theory, Combinatorics, Cryptography, Data Structures & Algorithms, Distributed Systems.

Course Projects Participated in the design of a scalable distributed internet messaging platform, where necessary educating classmates about TCP/IP semantics and APIs.

JOB EXPERIENCE

2002–present Programmer/Consultant, REED College.
Developed migration solutions to better support MacOS X for the college user base.

Currently developing a Kerberos-enabled network printer driver for MacOS X and a relational database backend for campus printing. Continuing to develop and maintain a Windows XP GINA to integrate PC labs with the campus Kerberos-based authentication system.

1997–2002 Assistant UNIX Systems Administrator, REED College.
Maintained production systems running Solaris 2.5 and higher, Linux, and Digital Unix 4. Solved systems integration issues with custom programming, including providing documentation with an overview of the problem along with proposed solutions.

Responsible for the campus-wide printing system, including: providing an interface for users to print from their workstations (MacOS, Windows, and UNIX), channeling the print job through the site-wide backend and sending it to the printer, recording usage and user authentication information (for billing purposes) when appropriate.

Responsible for network file space provided to Macintosh users. Customized an AppleShare server at the source code level as well as providing high-level support for the User Services staff.

Built the backend for an alumni email redirection system based on data in Oracle tables. Independently developed the software interface between Qmail and the Oracle database.

2000–2002 Academic Technical Support, REED College.
Provided help desk technical support for academic staff, students, and faculty members running MacOS, Windows, and Linux both in person and over the phone.

OTHER EXPERIENCE

1996 Implemented the TELNET protocol and a VT102 terminal emulator for the WIN32 console environment. 1000+ lines of C source code.

1994–1997 Participated in the development of a distributed internet messaging service based on the IRC protocol. Portions of the system are currently in use by over 100,000 people each day on the DALnet IRC network.

Responsible for portions of the cross-platform build system based on GNU Autoconf in addition to implementing new functionality in conjunction with several other volunteer developers.

OTHER SKILLS

Natural Languages: Spoken French, some Portuguese.