

# SOREN CARLSON SPIES

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## EDUCATION

**Brown University:** Expected BAs in Computer Science and Electrical Engineering, 2000

### Relevant Coursework:

- Object Oriented Programming in Java
- Software Engineering (C++, X11 / Motif)
- Operating Systems
- Databases
- Electrical & Optical Systems
- Digital Electronics Systems Design
- Building Intelligent Robots
- Advanced Computer Architecture

## SKILLS

**Operating systems:** Unix (Solaris, OS X Server, Ultrix, Linux, NetBSD), MacOS, NetWare, Windows

**Languages:** C, C++, Java, Pascal (some Macintosh Toolbox), MIPS & Motorola assembly

**Applications:** Unix – server configuration of NFS, LPD, NIS, ssh, etc; shell scripting in (k)sh; awk, sed, perl  
Mac – QuarkExpress, THINK Pascal, ClarisWorks, Eudora

**Miscellaneous:** TCP/IP – **network security**, protocols; data cabling; debugging (dbx, gdb); digital design

## WORK EXPERIENCE

**Intern** – Apple Computer, Inc

Summer 1999

- Worked for Localization and Release Engineering's Tools & Automation group
- Researched ISO 9660 & hybrid CD filesystem formats for "Disk Copy" product
- Investigated current free software ISO9660 tools; assessed future needs
- Added "read/write" disk image support to OS X Server kernel
- Worked with OS X group to design future disk and device image support

**SPOC (Systems Programmer, Operator, & Consultant)** – Brown Computer Science Department

May 1998

- Off-hours support for department's 200+ SUN workstations, servers, and network
- Maintain and create custom utilities; develop system policy, including security
- Solve ongoing software and system problems; supervise fileserver backups
- Wrote conflict discovery software for AAAI's IJCAI 1999 conference

– Present

**Student Computer Consultant** – Brown University English Department

September 1996

- Service, support and upgrade networked Macintosh hardware and software
- Teach faculty and staff to use computing resources; update dept. web pages

– Present

**Sun Lab Consultant** – Brown University Computer Science Department

September 1997

- Responsible for upkeep and security for 60+ Sun UltraSparc workstations
- Informed users about customizing their accounts; solved problems as they arose

– May 1998

**Undergraduate Teaching Assistant** – Brown University Computer Science Department

January 1997

- *Introduction to Scientific Computing*; Professor John Savage
- Assisted students learning C, graded projects, wrote grading scripts

– May 1997

**Teaching Assistant** – Center for Talent Development, Northwestern University

Summer 1996,

- Instructed gifted 7th-10th graders Algebra I, Algebra II, and Trigonometry

Summer 1997

**Systems Administrator** – Evanston Township High School Science Department

September 1993

- Solely responsible for maintenance of system software and other tools
- System administrator for three DEC workstations and several Macs and PCs
- Constructed a TCP/IP LAN and maintained a connection to the internet

– August 1996

**Computer Consultant** – self-employed

January 1992

- Provided personalized training, troubleshooting, and home computer repair
- Designed, built, and configured a Novell Netware based LAN for a law office
- Constructed billing database and cross-platform batch conversion system
- Linux consultation for local library web server

– Present

**Personal Interests:** Technology House Projects Manager, Ultimate, violin– Brown University Orchestra