

Software Developer & Technology Consultant

Considering permanent and consulting positions with a company seeking a software developer who creates tools, not just one that uses them.

Interested in tech and non-tech companies using innovative technology.

Positions

Software Developer, Millburn, NJ 1989-Present

Developed and Designed custom tools and apps (core language C):

- a multi-threaded NoSQL web database server & search engine with geographic, relational & adaptive search (licensed by Apple for 11 years)
- a message-based multi-threaded simulation engine for shared memory parallel processors
- an email server extension to support multiple domains and advanced message routing
- an Apache CGI gateway
- created three custom programming languages w/interpreters and ported one for PostScript
- a subscription-based web publication
- many web games, geographic search tools, and Internet contests & promotions
- app prototypes, interactive books and apps for education & training
- amusingly, Google will actually find some of my source code going back to 1986

Strong communication and technology instructional skills.

InterActions Media, a division of NCI Advertising / Publicis, New York, NY 1998-2002

Co-Founder, VP Development — Created and managed 25 projects over four years with a peak team size of 10 people. We created software for medical education, pharmaceutical marketing, interactive games, contests, surveys, and software for the Internet and Palm platforms.

Ehrlich Multimedia / Times Mirror Multimedia, Park Ridge, NJ 1993-1995

Software Developer — Developed Interactive CD-ROM titles in Macromedia / Adobe Director and created custom development tools.

Graphex Imaging Systems, Yonkers, NY 1991-1993

Software Developer — Developed computer graphics solutions and ported C language source for a PostScript RIP from Windows to Mac & Unix. (Also increased output resolution by a factor of 4.)
Wrote a SCSI device driver and a front end to connect the RIP to a custom parallel graphics engine.

Symantec / Peter Norton Product Group, Santa Monica, CA 1991

Consultant — Developed components and tools for The Norton Desktop™ for Windows 3.

Citicorp / Transaction Technology, Inc., Santa Monica, CA 1989-1991

Consultant — In addition to general QA testing of Bank ATMs, I Proposed, Designed, and Developed a novel Goal-Seeking programming language and interpreter to model a Bank ATM from the "point of view" of a Robot. The interpreter generated code for a robot to test an ATM. This was a classic "20% time" project! Observing that humans writing the robot's code was akin to using assembly language (error prone and time consuming), with an eye to automation, I presented my prototype and received approval.

Digital Equipment Corporation, Boxborough, MA 1985-1989
Senior Software Engineer — Developed Automated CPU Architecture Verification software for CISC and RISC processors: VAX, MIPS, PRISM & Alpha. Original Architect and Developer for DEC's RISC Architecture Exerciser (RAX). Developed innovative automated testing strategies, methods, and focused Monte Carlo models to test CPUs: register usage, memory access, instruction order, and arithmetic integer and floating point hardware. Required intimate knowledge of multiple processor architectures and operating system internals.

Wang Laboratories, Lowell, MA Summers 1983-1984
QA Associate — Developed interactive and automated tests for various peripherals.

Education

University of California, Los Angeles, CA 1989-1991
Advanced to Candidacy for a M.S. in Computer Science (ABD), GPA 3.71
Studied Advanced Computer Architecture, Fault Tolerant Computing, and Parallel Simulation.
Developed a multi-threaded simulation engine for use on a Shared Memory Parallel Super Computer. Member of the UCLA ACM Programming Competition Team for two years.

University of Massachusetts, Amherst, MA 1981-1985
B.S. in Computer Science, GPA 3.92, elected to Phi Beta Kappa, Cum Laude
Dean's list every semester & named an Alumni Scholar. Concentration in operating systems, numerical computation, and computer graphics. Served as a full-paid graduate teaching assistant (TA) my last semester for a course on assembly language.

Non-Tech Interests

Active in community theater and performing in a cappella groups since 1985. I have a gold medal from International Chorus Competition and have appeared in quartets on radio, television, and film.

Awards / Selections

Apple.com ZipBurst, a geographic NoSQL database engine licensed to run "Where to Buy" for the Apple.com website in the US 2003-2008 & Canada 2003-2009. Also licensed for other projects within Apple 2001-2011.

Communications Arts: Best Interactive Design (1998), HIV and AIDS, an interactive primer

MacWorld Expo Developer Greenhouse MailBurst software selected and recognized (1997)

Macromedia Shockwave Site of the Week for AT&T Olympic Shockwave Games (1996)

New Media Invision Multimedia Business Week 1000 CD-ROM — Bronze Medal (1994)

Digital Equipment Corporation Special recognition for contributions to Verification of the Aquarius CPU Design, VAX 9000 (1989)

Sample Commercial Software Developed

ZipBurst, Apache-Apple Event Bridge (AAEB), MailBurst, FaxBee & CodeBurst.