

OBJECTIVE A software engineering position with special interests in the design and implementation of distributed information systems and the application of machine learning techniques to aid human interaction with these systems.

EDUCATION *Master of Science*, Computer Science
College of Engineering, GPA 3.75
University of California, Davis
June 2003 — March 2006
emphases in

- Software Engineering
- Computer Languages
- Operating & Distributed Systems

Bachelor of Science, Computer Science & Engineering
College of Engineering, GPA 3.71
University of California, Davis
September 1999 — June 2003
Magna cum Laude, minor in Mathematics

GRADUATE COURSES

Software Engineering	Programming Languages	Concurrent Programming
Analysis of Algorithms	Distributed System Models	Information Security
Machine Learning	Computer Architecture	Commercial Cryptography
Language Analysis	Scientific Computation	Chaotic Systems (Physics)

EXPERIENCE *Applications Engineer* March 2006 — current
Alexa Internet
San Francisco

- * developed data-mining tools and applications
- * designed and maintain Alexa Image Search back-end
- * wrote tutorials on using the Alexa Web Search Platform
- * implemented internal Web Services with FastCGI and C++
- * worked with larger customers on application development

Graduate Research Assistant Fall 2003 — Spring 2005
Center for Software Systems Research
Premkumar Devanbu & Zhendong Su
Department of Computer Science
University of California, Davis

- * distributed network simulation
- * static analysis of reflection in Java bytecode

DARPA Grand Challenge, Team Aggie Spirit Fall 2004 — Spring 2005

- * control software design & implementation
- * systems integration & organizational teams

Teaching Assistant, Software Engineering Fall 2003 — Winter 2004
Department of Computer Science
University of California, Davis

- * software patterns & design specifications
- * three-tier business application development

<i>Research Assistant</i> , Dr. Premkumar Devanbu Department of Computer Science University of California, Davis * examples of Aspect-Oriented CORBA applications	Winter 2002 — Fall 2003
<i>Consultant</i> , Dow Pharmaceutical Sciences * network optimization & database application design	Fall 2000 — Spring 2003
<i>Laboratory Assistant</i> , Dr. Rena Zieve Department of Physics University of California, Davis	Fall 1999 — Winter 2000
<i>Laboratory Assistant</i> , Dow Pharmaceutical Sciences	Fall 1996 — Fall 1999
<i>Web Designer</i> , Castalia Communications	Winter 1997

LANGUAGES *Favored:* C, C++, CSS, (X)HTML, \LaTeX , LISP, PHP, Prolog, Ruby, XML, XSLT
Familiar: D, CSP, Haskell, Java, JavaScript, OpenGL, Perl, Python, SQL, Z

HONORS & AWARDS

Graduated with High Honors Tau Beta Pi Phi Kappa Phi Order of Omega IFC Scholarship Award, three years Bank of America Achievement Plaque Golden State Seal	engineering honor society general honor society society for Greek leadership highest ranked Greek Engineer Science & Mathematics
---	--

OTHER ACTIVITIES

Worse Than Failure (Formerly, ‘The Daily WTF.’) DARPA Grand Challenge, Team Aggie Spirit Well Known Secret Esperanza International Newman Catholic Student Community College Life Student Fellowship California Youth Authority Alpha Gamma Omega Fraternity Alpha Gamma Omega Fraternity	regular columnist design & integration writer, singer, lead guitar volunteer work (Mexico) group organizer, various leadership team, secretary volunteer work (visitation) secretary (elected officer) historian (appointed chair)
---	--

INTERESTS

I am interested in the way complex systems interact — especially when part of the system is human and part of the system is not — and have done research in machine learning, both genetic and neural; distributed systems; chaotic systems analysis; and program+language analysis. As information networks become increasingly ubiquitous, user interfaces and computer interactions become increasingly important; I would like to work with tools and applications that keep users happy, the network thriving, information fresh, and the machine in the periphery. As a team leader for Davis’ DARPA Grand Challenge entry, I helped integrate software and hardware for an automotive application, namely the automatic navigation of a vehicle with real-time, fault-tolerant information gathering system. At Alexa, I have helped push the development of several very cool technologies and explored new ways to extract and process information from the web.