

Mission Statement

My mission is to write software which *kicks ass*. I want to work on projects which are worth doing right and which help people in creative ways. I am especially interested in GIS, artificial intelligence, human language, programming languages, and user interface design.

Computer Nerd

- Since my introduction to Logo and BASIC at age 10, I have relished wrapping my mind around formal language and precise instructions. My professional and scholastic experience lies mostly in Java, Perl, and C. In my quest for the right balance between fluid English and mathematical formalism I've dabbled in assembly, C++, Io, JavaScript, Lisp, Objective C, PHP, Python, and Ruby.
- A distant descendant of *Homo habilis*, I adapt quickly to new environments and tools. I swim comfortably in Linux, MacOS X, Eclipse, platform-independent SQL, HTML, and XML.
- Since February, 2004 I have been a software engineer at Tyler Technologies, Inc. I work at all levels of our Java-based enterprise application. I explore and question requirements with analysts, build Swing-based GUIs, design core services, refactor key data structures, debug the persistence layer, and review almost every CVS commit for errors of design and implementation. I lead development of GIS, OCR/automated indexing, and several other modules. I stand out as a "go-to-guy" for insight about everything from subsystem design to text processing techniques.
- At UNAVCO, Inc. in 2003 I used Perl and JavaScript to create educational Earth science map tools.
- In December, 2003 I graduated from the University of Colorado, Boulder. I received both a Bachelor of Science With Distinction and a Master of Science in Computer Science. My GPA was 3.8 on a 4.0 scale.
- I pursued advanced coursework in object oriented design, algorithms, programming languages, operating systems, network systems, cognitive science, artificial intelligence, machine learning, speech recognition, natural language processing, user interface design, network systems, and Unix system administration.
- My Senior Projects group created a graphical event-based client-server computer board game in Perl/Tk.

Eclectic Philosopher

- As a philosophy minor, I apply critical thinking skills to all parts of life. I do not study philosophy merely as an idle practice of logicians. My daily life incorporates Occidental and Oriental theories of ethics, society, and metaphysics, especially those of environmentalism and social responsibility. As president of the Philosophy Club, I engendered discussion of such topics.
- I presented a paper on weakness of will at the 2002 Rocky Mountain Student Philosophy Conference.
- During high school I taught a Socratic seminar course on world philosophy.
- My world view ties computer science to philosophy and psychology. I am fascinated by artificial intelligence, cognitive science, limits of formal systems, and societal use of computers.

Generally Diverse Individual

- As a Resident Advisor at CU for two and a half years I built community, enforced policy, worked well with other staff, and acted as a personal and academic counselor and resource.
- I also exercised methods of communication, cooperation, organization, planning, and activism as an organizer of the CU Pagan Student Alliance group and as vice president for the Colorado Beta chapter of Tau Beta Pi, the national engineering honor society. I began practicing these skills at age 16 as a Little League umpire.
- I am a friendly and unique individual. While I take projects and tasks seriously, a subtle wit and creative approach to the mundane pervade my actions, keeping a smile present among my fellows. My extensive knowledge of geographic, historic, and scientific facts entertains coworkers during casual moments on the road.

Summary

- My mission is to write software which *kicks ass*
- Interests include GIS, artificial intelligence, human and programming languages, and user interfaces
- Bachelor's and Master's Degrees in computer science, minor in philosophy
- Experienced with Java, Perl, C, SQL, WWW, Swing, Linux, MacOS X, text processing
- Familiar with assembly, C++, Cocoa, Io, JavaScript, Lisp, PHP, Python, Ruby

Experience

Tyler Technologies, Inc. Lakewood, CO
Software Engineer Feb, 2004 – present

- EagleSoftware: Java-based enterprise application for county government offices
- Designed, implemented, debugged, and refactored code at all levels:
Swing framework, client views, business logic, core services, persistence layer, data conversion
- Lead developer of GIS and OCR/automatic indexing modules
- Worked directly with key clients on requirements gathering and project implementation
- “Go-to-guy” for complicated problems, design/code reviews, theoretical wisdom

UNAVCO, Inc. Boulder, CO
Contractor May, 2003 – Jan, 2004

- Implemented Voyager Jr. and other Earth science web map tools
- Perl/CGI server, HTML/CSS/JavaScript client

University of Colorado Boulder, CO
Senior Software Engineering Project Sep, 2001 – May, 2002

- Worked in 5-person team to design and implement computer game
- Client-server architecture with graphical interface, written in Perl/Tk

Education

University of Colorado Boulder, CO
Master of Science – Computer Science Aug, 2001 – Dec, 2003

Bachelor of Science With Distinction – Computer Science Aug, 1998 – May, 2002

- GPA 3.8 out of 4.0
- Minor in Philosophy
- Advanced coursework included

Machine Learning	Cognitive Science	Algorithms
Speech Recognition	User Interface Design	Network Systems
Artificial Intelligence	Object Oriented Design	Operating Systems
Natural Language Processing	Programming Languages	Unix System Administration

Activities and Hobbies

- Vice President, Tau Beta Pi engineering honor society, CO B chapter, 2002-03
Authored and presented a bid to host the national convention
- President, Philosophy Club, 2000-01
- Resident Advisor, CU Department of Housing, 2001-03
- Teaching Assistant for Data Structures course, Fall 2002
- Digital photographer, hot spring enthusiast, wearer of many hats