

## Profile

Experienced, resourceful, quirky web application developer seeking a position that combines a consistent and nurtured spirit of innovation with a motivated and skilled team of community-oriented developers.

## Experience

### GRADUATE STUDENT RESEARCH ASSISTANT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MI

Projects:

- Client/server application (*Python, Zeroc ICE, PostgreSQL, HDF5*) for collecting real-time sensor-data from bridges.
- Web application for real-time visualization of sensor-data (*J2EE, DWR [AJAX/Comet], JavaScript, Dojo*).
- MediaWiki extension (*PHP, PostgreSQL*) for detecting and auto-documenting changes to a database ontology.
- Privacy filter (*ANTLR, Java*) for dynamically/efficiently applying user-/location-/temporal-based privacy policies to SQL queries.
- Structured Java-based search engine incorporating feature extraction (*Apache Mahout*), efficient searching (*Apache Lucene*), and UI innovation (*Dojo*) integrating large datasets (*DBpedia, IMDB, etc.*). Included NoSQL work (*Cassandra and Hadoop*).

### GRADUATE STUDENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MI

Projects: Real-time web-based chat application, data visualizations (*Protivis, Dojo*), C++-to-JavaScript translator (*LLVM, Emscripten*), evaluation of auditing systems (*PostgreSQL, MySQL, Oracle, MSSQL*).

### LEAD DEVELOPER, MID-SIZED TECHNOLOGY FIRM, ANN ARBOR, MI

- *Lead Java Web Database/Front-End Application Engineer*  
Researched and led adoption of web technologies (*Struts, Spring, Hibernate, Tapestry, Dojo, DWR, and more*). Mentored team in advanced OO Java/JS development, design patterns, best practices. Created and managed coding standards, practices, and policies. Conducted technical interviews with applicants.
- *Project Manager*  
Pioneered adoption of agile practices, pair-programming practices, code reviews. Vetted and merged team code; coordinated project deploys. Created extensive documentation and standards. Created and presented project proposals and quotes to customers. Extensive customer interaction, fluently translating requirements to the programmers and progress to the customer. Led multiple projects from start to successful/profitable finish.
- *Member: Board of Directors & Action Committee*  
Compensation decisions and company restructuring

### COMMUNITY RESOURCE TEACHER, ANN ARBOR PUBLIC SCHOOLS; ANN ARBOR, MI

Developed and taught a set of Java web development classes for area high school students (*J2EE, JDBC*).

### UNIVERSITY TUTOR, UNIV. OF MICHIGAN, ANN ARBOR, MI

Taught calculus, writing, C++ programming, and Russian.

## Education

University of Michigan, Ann Arbor, MI -- M.S. Computer Science & Engineering  
*Databases, web information systems, information visualization, programming languages, compilers*

Washtenaw Community College, Ypsilanti, MI  
*Linux/UNIX administration and graphic design*

University of Michigan, Ann Arbor, MI -- B.S. Computer Science (Honors)

## Skills

- *Java Web Development*  
J2EE: Servlets/JSPs, Struts/Spring/Hibernate, Tapestry/Spring/Hibernate  
Testing: JUnit3/JUnit4 (with Spring-integration), EasyMock, Selenium (functional testing)  
Build-automation: Ant, IBM Team Concert, Maven
- *JavaScript Development*  
Libraries: Dojo, YUI, Prototype, Rico, Scriptaculous, JQuery  
Debugging: Firebug, Venkman, MS Script Editor, MS Visual Studio, IE7-9 Dev Tools
- *Database Development*  
PostgreSQL, MS SQL Server 2000, MySQL, Oracle  
Advanced SQL, complex queries, stored procedures, OO-relation mapping/design
- *Collaboration Software*  
CVS, SVN, Git, Mercurial, Bugzilla, Codestriker, IBM Team Concert
- *Misc*  
Design patterns, Aspect-Oriented Programming, Groovy (build-system glue)  
Informal/academic work with Python (TurboGears), PHP, Rails, Clojure

## Conferences

“No Fluff, Just Stuff”	Southfield, MI	September, 2005
ApacheCon	San Diego, CA	December, 2005
The Ajax Experience	San Francisco, CA	May, 2006
The Ajax Experience	San Francisco, CA	July, 2007
Northern Virginia Software Symposium	Reston, VA	November, 2007
CodeMash	Sandusky, OH	January, 2008
The Ajax Experience	Boston, MA	September, 2008
StrangeLoop	St. Louis, MO	October, 2010

## Community

- Java Users Group: Ann Arbor, Detroit Enterprise Application Developers
- Java Users Group: Detroit  
Presented on Dojo & DWR, Selenium, and Lucene
- Ann Arbor Computing Society  
Presented on Selenium
- Open source participation: Dojo, jGrouseDoc, emscripten, Hibernate, DWR, TurboGears

## Addenda

- *University of Michigan*  
WolverineSoft (secretary), webmaster for three student groups, managing editor and webmaster of a campus paper
- *Kettering University (attended one term before transferring to U of Michigan)*  
Editorial editor of The Technician (campus paper), Residence Hall Association (secretary), Judicial Board member, Talent Show (2nd place - piano)