

Peter L Vilim

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Software Projects: www.peterlvilim.com

EDUCATION

University of Illinois at Urbana-Champaign

Masters Computer Science

B.S. Industrial Engineering (Operations Research with *Minor Computer Science*)

James Honors Scholar

Dean's List: top 20% College of Engineering

Illinois General Assembly Scholarship: full tuition based upon academics and community service (2009-2010 and 2010-2011)

GPA 3.5/4.0

December 2014

May 2012

WORK HISTORY

Delphix (*database virtualization startup*) - Software Engineer

February 2015 - Present

Led multiple key software projects including Delphix Express and Delphix Jenkins Plugin

Mentored several engineers including a summer intern

Extensive interaction with customers and kick started several initiatives around community engagement

Presented at Jenkins User Conference 2015 on work at Delphix

Audience award at for best hackathon project at both company hackathons in 2015 (March and October)

Engineering excellence award

Delphix (*database virtualization startup*) - Software Engineering Intern

Summer 2014

Developed methods for managing and visualizing branching data flows within virtual databases

Developed and implemented novel graph algorithms for visualizations of virtual databases

Essex Radez (*options execution firm*) - Software Developer/Consultant

July 2013-April 2014

Developed systems for clearing and high speed execution of financial derivative products

Deloitte Consulting (*global consulting firm*) - Strategy Consultant

July 2012-December 2013

Created and communicated strategy roadmaps for IT departments of several Fortune 500 companies

Rayner & Rinn-Scott (*lumber distributor*) - Software Developer/Consultant

January 2012-Ongoing

Developed software for transportation optimization with automatic route planning and cost estimates

Ability to manually plan and visualize routes as well as automatic route planning via linear optimization and metaheuristic

Post route analysis tools for evaluating cost savings

W.W. Grainger (*Fortune 300 business-to-business supplier*) - Supply Chain Intern

Summer 2011

Developed high level estimates and plan for \$100M+ expansion of 1.4M sq. ft. distribution center

Argonne National Laboratory (*Department of Energy research lab*) - Software Development Intern

Summer 2007-Summer 2010

Lead software developer and co-inventor of patent-pending system for tracking radioactive dirty bombs

Implemented concurrent versions of cutting edge signal processing algorithms, user interfaces, video tracking, and network code

Documented final working system for invention report

SKILLS

Languages: Java, C++, Python, C, C#, Javascript, SQL, PHP, Perl, Matlab, HTML

Libraries/Frameworks/Protocols: C++ Standard Library, Boost, Linux development, jQuery, Node.js, D3.js, Knockout.js, JSON, AJAX, RS 232 Serial, TCP/IP, routing protocols, HTTP, USB, DirectX, Microsoft MFC, Microsoft .NET, MapReduce, Solarflare Onload, Apache Thrift, Hadoop, Spark, Shark, Hive, BlinkDB, data mining, SVN, Git

Engineering skills: threading and concurrency, distributed systems, data structures, sorting/search/graph algorithms

Mathematics: machine learning, linear optimization, applied statistics, stochastic processes, simulation, data mining, graph theory

Communication: technical writing proficiency, extensive public speaking experience, exceptional ability to communicate technical concepts to customers, clients, and people with technical and non-technical backgrounds

Teamwork/Leadership: strong ability to work with members of a multi-disciplinary team, self-starter with experience working in shallowly scoped projects, experience leading high visibility software projects