
SOFTWARE ENGINEER IN LEADERSHIP ROLE

Performance-driven professional with an extensive track record of accomplishments identifying product and application requirements, system design, implementation, documentation, and training. Persuasive communicator, motivating and engendering trust and support from direct reports and others involved in the projects. Effectively comprehend new and complex technical information and transfer this knowledge to technical and non-technical audiences. Seeking opportunity to work in an Agile/XP/Scrum environment translating clients' needs into designs and tests and the ability to change requirements, specifications, and design as needed based on changes in technology, market conditions, and client needs.

SKILLS

- Polarity Management training 2009
 - Customer Presentations and Education
 - Teach Listening, Following, Leadership Skill (CI)
 - Effective communicator
 - Object Oriented Programming and Design
 - Planning and Organizing
 - Election Judge Manager 2008
 - System Design
 - Interface between tech and non-tech
 - Creative Problem Solver
 - Fluency in English (native) and French
 - Research and Development (R&D)
 - Team Management
 - Structured Programming
 - Data Structure & Algorithms
 - Software Developer
 - Technical Writing
 - Technical Trainer & Coach
- Living, working, understanding differences in various cultures: 2006–2007 New Zealand, 2007 Australia, 2007 France
 - Research and Teaching: Programming Languages, Distributed Systems, Operating Systems, Object Oriented Design
 - Languages: C++, Java, Perl, SQL, PHP, JavaScript, Smalltalk, UML, HTML, XML
 - Operating Systems: UNIX (Linux, FreeBSD, HP-UX, Solaris, SunOS, Digital UNIX)
 - Software: Degreeement Student Advising System, MySQL, Rational Rose Real-Time and ClearCase, Apache Web Server, Interwoven TeamSite, various CORBA implementations
 - Development Environments: Emacs, Eclipse, CVS, SVN (Subversion)

PROFESSIONAL EXPERIENCE

GRIFFMONSTER, LLC, Boulder, CO (February 2001–Present)

President, Architect, and Principal Consultant

- Technologies used: Perl, MySQL, C++, Java, PHP, JavaScript, Linux, Solaris, Eclipse, Degreeement Student Advising System
- President of Degreeement.com - student degree audit and advising software system
 - Reduced department administrative overhead by 1,000 man hours per year using Degreeement software system
 - Directly managed marketing team dealing with universities, secondary schools, and state board of education
 - Mentored computer science students on coding and designing degree requirements for departments
 - Trained and mentored advisers on using the system
 - Designed, developed, and documented system
 - Integrated advising software with legacy systems and coded degrees into the system
 - Developed algorithms, UI, and specification languages for degree checking and reporting
 - System design scaled to handle 100K students and several million student course records
- Consulted for various clients utilizing my expertise in distributed systems, client / server architectures, operating systems, open source software
 - Learned, utilized, and disseminated acquired knowledge of new software
- Led workshop in 2009 assisting 110 special needs individuals on resume writing, job interviewing, and presentation of self via a Goldman Sachs Community TeamWorks program for the Brooklyn Bureau of Community Service We Care program.

DEMOCRATIC NATIONAL CONVENTION COMMITTEE, Denver, CO (August 2008)

Team Manager for Sustainability and Greening Division

- Managed 125 volunteers and 4 managers in a venue with 30K visitors per day
- Took responsibility and leadership, reorganized volunteer team distribution during critical understaffing incident

PANCIL, LLC, La Jolla, CA (October 2003–January 2009)

Engineer and Architect (GriffMonster, LLC client)

- Technologies used: Perl, MySQL, C++, FreeBSD
- Designed, developed, and documented network monitoring and notification application
- Designed and developed plug-in interface to open source application enabling parsing of custom file formats

GLOBALSIGHT, Boulder, CO (April 2000–July 2001)

Principal Software Engineer

- Technologies used: C++, Java, GlobalSight System3, Interwoven TeamSite, Vignette, Active, WebMethods, Solaris
- Managed internal teams for customer integrations and communicated requirements to customers and external vendors that resulted in successful projects
- Collaborated with product marketing and sales teams to develop market requirements and prioritize customer features
- Technical project management for clients in US, France, and UK
- Identified and designed features for globalization and I18N (Internationalization) product
- Designed, developed, and documented integrations between I18N product and external products
- Mentored fellow developers in best practices and held "brown bag" and training sessions on external vendor products

ERICSSON WIRELESS COMMUNICATIONS INC., Boulder, CO (November 1999–April 2000)

Research Engineer

- Technologies used: Java, Perl, CORBA, Rational Rose Real-Time, Emacs
- Provided expertise on distributed communication issues
- Designed and developed real-time controller interfaces to wireless base stations

UNIVERSITY OF COLORADO AT BOULDER (January–May, August–December 1998)

Visiting Instructor

- Technologies used: Java, Perl, C++ STL, Smalltalk, Rational Rose
- Managed group projects and led design reviews of industry sponsored projects
- Developed and instructed Object Oriented programming and design course
- Guided students in researching and presenting new tools, trends, and techniques

UNIVERSITY OF COLORADO AT BOULDER (January 1998–November 1999)

Research Assistant

- Technologies used: C++, CORBA, VRML, Linux, Emacs, Gryphon
- Advised, consulted, and educated on design and implementation of distributed systems for data transparency, location migration, and redundancy
- Identified location and synchronization inefficiencies in communication subsystems
- Designed, and developed a dynamically tailorable distributed object subsystem
- Resulted in reduced latency and improved scalability of applications in virtual environment and financial markets

OTSUKA ELECTRONICS (U.S.A), INC., FORT COLLINS, CO

- Utilized X and Motif calls to construct a plotting and graphical control interface for serial communication between a Sun Sparcstation and controller hardware for Nuclear Magnetic Resonance Spectroscopy.

OPEN SOURCE CONTRIBUTIONS

- Personal mail program: Sends personalized email to groups. Used with Degreement to contact students regarding scholarship eligibility, nearing graduation, academic probation, etc. Perl and MySQL
- GMSysMon: System Monitor and alarming on CPU load, temperature thresholds, network and machine failures, custom events. Small and light weight alternative to heavy weight power of Nagios
- Checkbot: contributed code to extend functionality of CPAN project hosted on SourceForge.net. Enhanced providing plug-in capabilities for custom parsing and analysis by this web spider report tool

EDUCATION

Ph.D., Computer Science - *University of Colorado*, Boulder, CO, USA

- Thesis: *Gryphon: A Dynamically Tailorable Mechanism for Customizing Location and Caching Policies in Distributed Object Subsystems*

Masters of Science (M.S.), Computer Science - *Lehigh University*, Bethlehem, PA, USA

- Thesis: *Algorithm Overloading on the n-cube Hypercube*

Bachelor of Arts (B.A.), Computer Science and minor in Economics - *Lehigh University*, Bethlehem, PA, USA

AWARDS AND MEMBERSHIPS

- Received GlobalSight's monthly President's Award twice (August 2000 and March 2001) for outstanding contributions by working cross functionally to reduce disparity between client needs and engineering priorities
- Institute of Electrical and Electronics Engineers (IEEE) since 1991
- IEEE Computer Society since 1991 and Denver Section Secretary 2008 and Treasurer 2009