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Objective

Systems Engineer with an additional interest in internet programming, training and project management

Executive Summary

Motivated, creative, self-starting engineer with excellent programming, analytical and interpersonal/intercultural skills coupled with a solid knowledge of teaching, technology and systems engineering is seeking employment with a professional, synergetic organization.

Education

Masters of Engineering, Systems Engineering, January 1998

University of Virginia, Charlottesville, Virginia

Overall GPA: 3.65/4.0 scale

Graduate Studies in Operations Research / Mathematics, January 1994

George Mason University, Fairfax, Virginia (12 Hours)

Overall GPA: 3.75/4.0 scale

Bachelor of Science, Mathematics, Cum Laude, May 1990

Virginia Polytechnic Institute and State University (VPI&SU), Blacksburg, Virginia

GPA in Major: 3.3/4.0 scale Overall GPA: 3.5/4.0 scale

Professional Collegiate Teacher Certification: Mathematics and Computer Science--grades eight to twelve

Experience

Web Applications Developer and System Architect

UVA Darden Graduate School of Business, Charlottesville, Virginia, {Jan 2002- Present}

- Developed J2EE student management applications fronted by struts and tapestry using many open source tools
- Developed part of a Ruby on Rails Social Networking application
- Developed many different types of applications using a test driven methodology and proven software design patterns
- Developed and automated functional and load tests to be run with continuous integration
- Project manager and developer for many enhancements to student registration systems at www.darden.virginia.edu
- Architected SQL server databases for high integrity and performance; developed object relational maps using JDX (similar to Hibernate) for J2EE applications; profiled performance using SQL profiler and other tools.
- Enhanced, fixed, coded and deployed student applications in Visual Basic, Access and ColdFusion.
- Helped implement an Agile development process for the Darden Solutions team
- SCJP in Java 1.6, ColdFusion 5.0 certified and ColdFusion MX certified
- Using the Rational Unified Process, gathered the requirements for a major implementation of Siebel software

Quality Assurance Manager

UVA Darden Graduate School of Business, Charlottesville, Virginia, {Oct 2006- Oct 2008}

- Managed a team of Quality Assurance professionals to functionally and load test iterative releases of our applications
- Successfully completed UVA project management essentials courses.
- Incorporated performance, test and reliability (PSR) testing using open source tools (ex Grinder, Selenium)
- Developed simulations of heaviest performance on J2EE applications
- Manage a load test environment consisting of load generating, load balancing and load bearing machines.
- Instrumented code using the Mercury J2EE profiler to find the bottlenecks in the internal software methods
- System Administrator of load test environment and developed automation scripts to increase efficiency

Research Associate

Barron Associates Inc., Charlottesville, Virginia, {March 2001- Jan 2002}

- Integrated aerodynamic control laws in c code into a high fidelity unmanned air vehicle (UAV) simulation and created a UAV simulation from linear aerodynamic models
- Coded in C++ the Robustness Analysis for Simulation-based Control Law Evaluation (RASCLE) software tool for use by NASA in testing control laws. Modeled C++ code in Rational Rose
- Summarized research and development work in technical reports.
- Wrote a Small Business Innovative Research (SBIR) proposal. Familiar with sources of funding for research

Microsoft Certified Software Applications Developer creating both Web-Based Client/Server and Stand-alone applications

Computer Sciences Corporation, Charlottesville, Virginia , {October 1999 – March 2001 }

- Microsoft Certified Professional in Visual Basic for desktop and distributed applications
- Deployed Enterprise (session beans and entity beans) Java Bean (EJB) applications that respond to end user web-based communication with servlets by passing XML using HTTP. Familiar with Web-Logic Server.
- System Architect and technical lead for the million dollar Verity 2000 (V2K) project, creating use-case models and object models of the systems as part of implementing the Rational Unified Process.
- System Architect for the \$750K E-FOIA project. Managed and mentored team members in enterprise software development. Migrated complex Access database to a web-based office system integrating some COTS with Oracle.
- Trained in the Rational Enterprise Suite and best practices of software development and documentation
- Developed Relational Databases in Oracle and SQL server and proficient in Structured Query Language
- Proficiency in Microsoft SQL server demonstrated by programming in Transact SQL, optimizing queries, lookups, views and DTS package objects. Integrated Seagate Crystal Reports with web-based application and Crystal Reports Server.
- Created intensive client/server applications utilizing Active Server Pages with Visual Interdev that export XML files

Internet Entrepreneur and Computer Software Consultant: project management and web-marketing

Home Business, Charlottesville, Virginia, {Sept. 1995 - Present }

- Created a Knowledge Based System to assist doctors in diagnosing melanoma (Graduate Program)
- Collaborated with a team of 10 software developers to create “Boxer Algebra,” for high school algebra.
- Analyzed and developed advertising strategies to improve customer websites and develop custom CGI scripts
- Created Web Pages for the US Congressional race and local companies
- Use CGI, tables, frames, and multimedia like Photoshop for web page development
- Experienced in sound format manipulation and editing
- Proficient on many platforms such as Macintosh, IBM, UNIX and VAX

Accomplished Math and Computer Science Teacher implementing quality lessons in a caring environment

Albemarle High School, Charlottesville, Virginia , {August 1994 – October 1999 }

- Taught “Introduction to the Internet” classes to adult learners through Piedmont Virginia Community College
- Assistant LAN Administrator, Associate Chairman of the Computer Science Dept. and internet class teacher
- Trained teachers on the use of the network, solved network problems and provided automation support to resolve end user difficulties.
- Have taught Geometry(3), Algebra(6),--previous school-- Algebra 2(.5), US History(2), World History(1.5), Principles of Science(1), Sociology(2), Spanish(.5), Calculus(.5). (parenthesized #s = years taught)

Additional Skills**Money Management**

- Invested in both stock and commodity options--working knowledge of investments.
- Treasurer of Mill Creek Home Owners Association--in charge of \$40,000 budget

Miscellaneous Experience : speak Spanish and Hebrew

- **Spanish:** four years in school, taught it for one year and spent two months in Spanish cultures
- **Hebrew:** 2 years of Hebrew school and spent a month in Israel

Activities/ Personal

Software Presenter, {June 2005 - present }

- Presented at the local Ruby Users Group on using web services

Athlete, VPI&SU, {June 1986 - present }

- Varsity letterman in VPI&SU track: sixth place in Virginia state ten kilometer (1988)
- Ran 2 marathons and still exercise at least 3 times weekly.

Inventor, Virginia, {November 1993 - present }

- Invented and disclosed an apparatus for teaching Algebra

Church, {1982 - present }

- Participated on a high school youth leadership team for 14 years

References: Available upon request