

TIMOTHY C. FANELLI

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PROFESSIONAL SUMMARY

I have 8 years experience as an enterprise application designer, 6 years as a professional software engineer, and 4 years as an instructor of Software Engineering. I have designed and implemented J2EE solutions in financial, retail and private sectors using a variety of open- and closed- source application servers and operating systems. Breadth of experience ranges from standalone application server deployments on *NIX platforms, to high-availability business process management systems running on z/OS.

My objective is to obtain a full time software architecture position requiring the design, architecture, and project management skills acquired throughout my career.

TECHNICAL SKILLS

Programming Languages: **Java, C#, C/C++**, JavaScript, Ruby, Python, Perl, Bash

Databases: **IBM DB2**, Microsoft SQL Server, MySQL, PostgreSQL

Middleware Platforms: **IBM WebSphere (6.x, 7x), IBM WebSphere Stack Products: Process Server, Portal, Fabric, WSRR**, Apache Geronimo, JBoss, Apache Tomcat

Enterprise Java APIs: **Servlet/JSP, EJB (2.x/3), JPA, JMS, JNDI, SCA, SDO**, Struts, Hibernate

Software Engineering: **Services Oriented Architecture**, Object Oriented Design, UML, Design Patterns, **Test Driven Development, Agile Development, Unit Testing**

Operating Systems: **Linux, z/OS**, BSD, AIX, Mac OS X, Microsoft Windows (XP, Vista, 7, Server 2003/2008)

Other: Strong understanding of software lifecycles, project management, algorithm design and analysis

EXPERIENCE

IBM Software Group

Staff Software Engineer

Application Developer (Supplemental)

Poughkeepsie, New York

01/2009 - Present

11/2006 - 01/2009

Design and implement high availability and high performance J2EE infrastructures and software workload solutions to mimic customer scenarios and workloads, working with product development and test teams to ensure reliability and performance in customer production deployments. Increased throughput of flagship workload application 833% from

1500 transactions/second/server to 12,500 by optimizing O/R access layer and design of relational database structure.

Drive workloads and analyze performance across the WebSphere product stack on z/OS platform, stressing integration points between WebSphere Application Server, WebSphere Process Server or Enterprise Service Bus, WebSphere MQ, and IBM DB2.

Perform System Verification Test scenarios stressing integration between IBM Rational developer tool chain and IBM WebSphere middleware solutions.

Clarkson University

Potsdam, New York

Instructor

08/2006 - Present

Teach undergraduate courses in Software Engineering with an emphasis on problem solving, design reuse, and application architectures. Courses taught include:

- EE261 - Introduction to Computer Programming in C++
- EE363 - Software Components and Generic Programming
- EE368 - Software Engineering
- EE408 - Software Design for Visual Environments
- ES100 - Introduction to the Engineering Use of Computers
- ES300 - Introduction to Engineering for Non Majors

Kenosia Corporation

Danbury, Connecticut

Software Engineer

09/2005 - 07/2006

Responsibilities included design and implementation of functional requirements in Kenosia's flag ship product, Data Alchemy, as well as maintenance of their J2EE customer portal application, KnowledgeShare.

Major accomplishments include:

- Complete overhaul of the J2EE security infrastructure protecting sensitive customer performance data
- Redesigned production infrastructure to improve uptime and reliability, particularly during release cycles.
- Led the engineering design team in the architectural requirements of a major re-write of DataAlchemy.

Zedak Corporation

Valhalla, New York

Software Developer

07/2004 - 09/2005

Implementation and test of functional requirements in large scale, distributed financial data analysis and reporting platform. Major contributions include:

- Design and implementation of a reusable work-flow management system.
- Redesigned existing report generation framework for MVC design pattern, reducing time to implement new report styles from 1 week to 1 day.
- Refactored source code library consisting of nearly 100 Java packages, and thousands of classes, into a collection of 30 reusable, independent Java projects.
 - Migrated source control repository from SourceSafe to Subversion
 - Implemented a reusable, automated build system in Ant capable of tagging, dependency resolution, and build tracking.
- Implemented a theme framework, allowing brand specific customization to both the JSP/JavaScript front-end and report generation infrastructure.

SERVICE

Zeta Nu Fraternity, Inc.

Potsdam, New York

Faculty Advisor

07/2009 - Present

Elected by the brothers of Zeta Nu Fraternity at Clarkson University to serve as their Faculty Advisor.

Clarkson Programmer's Union

Potsdam, New York

Faculty Advisor

08/2009 - Present

The Clarkson Programmer's Union, or CPU, was formed during the Fall 2009 semester by several undergraduate Software Engineering students as an interdisciplinary project based software design team. CPU highlights our student's capabilities and ingenuity while allowing them to design and implement project of their choosing, which would otherwise be outside the scope of their course work.

AWARDS

IBM Thanks! Award

May 2008, November 2009, (2x) December 2009

Peer to peer recognition for service beyond regular responsibilities.

Clarkson University Teaching Excellence Recognition Award

Fall 2008 Semester

For excellence in undergraduate teaching, measured by student evaluations and teaching productivity as reflected by the number of students taught.

EDUCATION

Clarkson University

Anticipated May 2011

Doctor of Philosophy in Electrical and Computer Engineering

Research in systems engineering methodologies focusing on model driven design workflow automation for hybrid hardware/software device implementation.

Clarkson University

May 2004

Master of Science in Electrical Engineering

Research in J2EE application architectures focusing on data analysis and modeling techniques. Developed jETIA - Enterprise Tools for Information Analysis. jETIA is a data snapshot, aggregation, and report generation system capable of interacting with disparate data stores in varying backend formats.

Clarkson University

May 2002

Bachelor of Science in Software Engineering

Participated in IBM's EPIC program, with undergraduate internships during junior and senior years. Developed test plan management software that successfully tracked hardware compliance test lab scenarios world-wide.