Eric Tavela

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Professional Summary

Practical and talented Java software engineer and architect with twenty years of experience in web and desktop application development. Passionate about software craftsmanship, building supportive and capable development teams and best practices in software development process with an emphasis on applying Agile principles.

Relevant Professional Experience

Compugain (Herndon, VA), Senior Architecture / Software Engineer   **2017 - Present**
Working on site at CollegeBoard as a technical team lead and software engineer to support their AP Full Year Model initiative. Core technologies include Spring Boot, AWS Lambda, AWS ECS, AWS DynamoDB, AWS RDS Postgres and Docker.

5AM Solutions (Rockville, MD) Founder, Software Architect, Software Engineer   **2003 - 2017**
As Founder, set the initial technical direction for 5AM and built a vital client portfolio through successful delivery of projects and building a high performing software development staff.

Led implementation teams to deliver software for major healthcare and life sciences clients including Pfizer, the National Cancer Institute and Thermo Fisher Scientific. Notable projects include:

- Technical Lead on project Sunrise that manages data capture and processing for pharmaceutical clinical trials via an AngularJS front-end backed by a microservices infrastructure.

  Technologies include Spring Boot, AngularJS, JHipster, MySQL, Cassandra, Cucumber, Serenity and Docker.

- Architect and Technical Lead on foodfraud.org version 2.0 for the U.S. Pharmacopeial Convention. The application tracks and reports instances of food supply adulterants for industry clients.

  Technologies applied include Spring Boot, AngularJS, CAS authentication integration and Oracle Database.

- Architect and Technical Lead for the Pfizer Blue Button project, the first solution to deliver clinical trial data directly to patients. The solution transforms Oracle Clinical study exports to industry standard FHIR Resources and HL7 C-CDA documents and provides a RESTful API to retrieve HL7 C-CDA documents and PDF representations.

  Technologies include Spring MVC, Tomcat, Selenium and MDHT CDA for HL7.

- Architect and Technical Lead for caArray 2.0 for the National Cancer Institute used by NCI-funded research to manage and share gene expression microarray data between cancer researchers.

- Developed materials for and delivered 5AM's internal hands-on UML 2.0 with Enterprise Architect training course.

Number Six Software, Senior Software Consultant   2000 – 2003

Mentored development organizations in object-oriented development technologies. Specific duties included hands-on consulting in Java EE technology, web application design, object-oriented analysis and design, UML and technical best practices.

- **Consultant to Booz Allen Hamilton**: designed and implemented the middle-tier architecture for a U.S. State Department project targeted for worldwide deployment. Mentored development personnel in EJB analysis and design and provided guidance in UML modeling and applying the Rational Unified Process.

- **Consultant to Freddie Mac**: instituted major improvements in development build, test, and deployment processes for Project Enterprise, ` a mission-critical Java EE project. Directed change management and build activities for a large development staff (60+ developers) during a major restructuring effort, moving from feature set based development to a subsystem-based approach. Coordinated efforts of a team of subsystem integrators and managed activities of the main integration team.

- Taught classroom-based Rational Software courses in Object-Oriented Analysis and Design with UML and ClearQuest and ClearCase Administration.

UNISYS, Principal Programmer Analyst   1998 – 1999

Developed software on-site at the U.S. Coast Guard Operation Systems Center.

- Developed application to automate USCG web server procedures with ASP front-end, Java SE business layer and SQL Server database.

- Analyst and data modeler for a mission-essential USCG marine safety operations project.

- Awarded Contractor Employee of the Quarter and twice awarded Unisys Achievement Award for Excellence.

AMTI, Internet Administrator   1996 – 1998

Performed a wide range of application development and system administration activities to support United States Coast Guard internet services.

- Installed and administered firewall (Checkpoint FireWall-1), DNS, SMTP and NNTP services in heterogeneous Unix environments.

- Developed application to track USCG-wide Y2K system upgrade activities with IIS, JavaScript and SQL Server.

AOL, Internet Systems Developer   1995 – 1996

Developed internal and customer-contracted web-based applications for AOL's internet hosting division.

- Developed applications to automate deployment of web servers and databases on a network of SGI hardware and registration of domains and DNS for one of the first-ever web hosting platforms.

Certifications

- AWS Certified Solutions Architect – Associate - 2017
- ScrumAlliance Certified ScrumMaster – 2009
- IBM Rational Certified Instructor (2000 – 2007): ClearCase and ClearQuest Administration, Object-Oriented Analysis & Design with UML, Rational Rose and Principles in Object Technology
- IBM Rational Unified Process Certified Consultant, 2002
- Sun Certified Web Component Developer for Java 2 Platform, Enterprise Edition, 2002
- Sun Certified Java 2 Programmer, 2000

Current Tools and Technologies

Java
- Java SE 8, Java EE 8
- Spring Boot 1.x stack (Spring Core 4.3.x, Spring MVC, Spring Data, etc.)
- JPA 2.1, Hibernate ORM 5.2.x
- Struts 2.x

Web
- AngularJS 1.5.x, 1.4.x
- JavaScript ES5, ES2015, TypeScript 2.2
- webpack 2.3.x
- jQuery 3.x
- HTML5
- REST / HATEOAS

Databases
- Oracle Database 12c
- PostgreSQL 9.x
- MySQL 5.x

Deployment
- Amazon Web Services (AWS)
- Tomcat 8.x
- JBoss Application Server 7.x

Supporting Tools
- **IDEs:** IntelliJ IDEA 2017, Eclipse Neon (4.6.x)
- **UML**: Enterprise Architect 13, MagicDraw 17.0.x
- **Testing:** JUnit 4.x, Selenium 3.x, Cucumber-JVM 1.2.x, Serenity 1.2.x, Karma 1.5.x, Jasmine 2.5.x, Protractor 5.1.x

Development Processes
- Kanban
- Scrum
- Rational Unified Process

Awards and Notables

- Contributing author for 2008 Jolt Award winning book, <u>Continuous Integration: Improving Software Quality and Removing Risk</u>

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