

## Vaishnavi Sivakumar

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### SUMMARY

- About 3 years of experience in Analysis, Design, Development, Testing, Customization, and Implementation of the Software application in Enterprise Java.
- Experience in AWS, Spring MVC, Spring Boot, REST/SOAP, JSON and Hibernate with 6 years of academic experience and 8+ years of hands-on experience.
- Experience in bug-fixing, developing test plans, requirement gathering and providing daily production support.
- Good understanding of Concurrency control, Multithreading, Multiprocessing using C and Java, Object Oriented programming, TCP/IP with ability and willingness to learn new technologies.
- Comprehensive knowledge on Object oriented analysis and design, application development and maintenance.
- Practiced in extreme Programming (XP) disciplines including Pair programming, Test-first/Test Driven Development(TDD), and Waterfall Development.
- Experienced in delivering products that include web front-end development; JavaScript, and capable in Continuous Delivery tools and pipelines such as Jenkins, Maven, and Gradle.
- Experience in Agile development / Scrum model, Kanban board, Retrospective, and User story mapping.

### TECHNICAL SKILLS

<b>Languages</b>	C, C++, Java, Swift, C#
<b>Java Technologies</b>	Core Java, J2EE, JVM, Servlet, Spring MVC, JDBC, JUnit, JSON, REST, SOAP
<b>Front-end</b>	HTML, XHTML, Bootstrap, jQuery, Ajax, CSS, DOM, JavaScript
<b>Database</b>	Oracle, MySQL, MS SQL Server
<b>Tools/Utilities</b>	UML, Gradle, Hibernate, Maven, GitHub(Git), SVN, MATLAB, Xcode, Eclipse
<b>Scripting Languages</b>	UNIX Shell Scripts, PHP, JavaScript

### PROFESSIONAL EXPERIENCE

**NASA Fitness LLC., Houston, Texas**

**April 2017 – August 2017**

**Software Development Intern – Project Manager**

**Key Highlights** – Web application | Agile | Spring MVC | Java | Maven | Spring MVC | MS SQL | Gradle | Tomcat

#### **Responsibilities**

- Built a defect-less end product with a customer satisfaction factor of 98% and delivered the product on time.
- Managed the analysis, design (database design), development and deployment phase of the project.
- Released the web application in the PROD environment on time with no issues and defects.
- Got an A in the Capstone coursework for developing the best web application in Summer'17 term.

**Virtusa Software Services Pvt. Ltd., Chennai, India**

**May 2014 – January 2016**

**Client: Truven Health Analytics, North America**

**Software Engineer**

**Key Highlights** – Web application | Agile | Spring MVC | Java | XML | Data publishing activities | Java development | Jenkins

#### **Responsibilities**

- Involved in writing Junit test cases for the existing application where I contributed in increasing the code coverage from 53% to 93% in 6 months on a code base with over 250,000 lines of code.
- Developed a windows application using Java to execute shell scripts that distribute the data from the XML to the database.
- Maintained full stack application in MVC pattern that involves Java/J2EE technologies with Web services (REST API) and SQL and delivered a defect less release every sprint.
- Introduced agile pair programming principles(SCRUM) to the team members which resulted in better communication, a focus on deadlines, and kept the development cycles on a regular basis.
- Closed/Resolved high priority defects and delivered a defect less component for the QA, and performed unit testing, system testing, regression testing, and integration testing.
- Involved in gathering and analyzing business requirements and converting them into technical specifications.
- Set up sprints for the application deployment in DEV, QA and PROD environment.

- Working with onsite client to track status and issues in offshore maintenance project, analyzing change requests/enhancements and conducting tests.
- Managed data publishing and data distribution activities in the project.

**Virtusa Software Services Pvt. Ltd., Chennai, India**

**October 2013 – May 2014**

**Associate Software Engineer – Campus Worker**

**Key Highlights** – Web application | Agile | Spring MVC | Java | SQL | AWS EC2 | Quartz | SVN

**Responsibilities**

- Was recognized for my efforts and was promoted as Software Engineer.
- Designed and developed Use Cases, Class diagrams and Sequence diagrams using UML.
- Involved in developing Technical Design Document, Software Requirements Specification Document, and Technical Test Document.
- Developed a web-based scheduler that allows users to schedule, and manually invoke remote batch jobs.
- Performed Unit testing, System testing, and Integration testing.

**Students' Guild of Service (SGS), Dr. Mahalingam College, India**

**January 2013 – September 2013**

**Web Development Coordinator – Volunteer work**

**Key Highlights** – Web application | Front-end | HTML | CSS | Bootstrap | jQuery | Photoshop

**Responsibilities**

- Was awarded the best volunteer of the year award for the timely delivery of quality product.
- Involved in developing web applications for the college and the SGS committee that allows the members of the committee to maintain the events organized by the student organization in the college, publish posters, events information, and announcements.
- Designed posters, banners, and ID cards for the inter-collegiate events.

## **ACADEMIC PROJECTS**

**File sharing portal** – JAVA | Spring MVC | JSP | My SQL

- Developed a web application that allows students to access the course materials and the professors to add course related data and users to the portal with Spring Security for authentication.

**Multi-tiered approach for Content-Based Image Retrieval using SVM classifier** – MATLAB | SVM classifier | Image processing

- Developed a multi-tiered user interface that retrieves images similar to that of the input image. Support Vector Machine classifies the pictures in the data set, based on the extracted color and texture features of the images.

**Bucket list places to visit app** – iOS application | Swift | Auto layout | Core Location | Core Data | Mobile App

- Developed an iOS app that allows users to select the places they prefer to visit by clicking on the map and add its latitude and longitude to their bucket list. The developed app dynamically changes its layout based on the device's screen size.

**Publisher Subscriber application** – C language | Multithreading | SDLC

- Developed a multithreaded application that allows users to register to a node and subscribe for the advertisements available. Publishers accept the subscriptions and send the advertisements to the users. The prototype was implemented using the RIP.

**Prototype of Skype using Socket programming** – C language | XML | SDLC | XPath | XSLT

- Developed a desktop messaging application using the Skype architecture. Communication between the systems was implemented using socket programs. (**Advanced Operating System and Distributed System**)

## **EDUCATION**

**M.S. in Computer Science**

**January 2016 – August 2017**

University of Houston – Clear Lake, Houston, Texas

**B.Tech in Information Technology**

**August 2010 – May 2014**

Dr. Mahalingam College of Engineering and Technology, Coimbatore, India