# Pooja Takavale

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**Summary**

* Over **10 years** of experience in the IT industry with proficiency in the development and Enterprise distributed systems, Client/Server, Web Applications and Microservices.
* Highly skilled Software Engineer with expertise in **Java, JavaScript, TypeScript, Python, SAP UI5, Fiori.**
* Proficient in developing robust applications using frameworks such as **Spring Boot and Node.js.**
* Experience in developing web-services applications using **Java/J2EE**, Restful web services, Microservices, **Spring Boot**, **JSON, and XML.**
* Responsible for creating efficient design and developing user interaction screens using **HTML5, CSS3, Bootstrap, JavaScript, Angular 8/9, and Node JS.**
* Experienced in **Amazon Web Services** Cloud Technologies **– AWS Fargate**, EC2 (Auto scaling, Load Balancing), S3, **AWS Lambda**, API Gateway, Route 53, SQS, SNS, DynamoDB, RDS, Cloud Watch.
* Demonstrated expertise in managing and optimizing data stores like **MySQL, Oracle, MongoDB, and SAP HANA.**
* Adept at utilizing tools and technologies such as Selenium, Git, Junit, and cloud platforms (AWS, Azure, GCP) to enhance development processes.
* Possesses working knowledge of **ReactJS** concepts for basic UI modifications.
* Expertise in Front end Technologies like **Angular, React.**
* Expertise on Messaging/Streaming Platforms like **Rabbit MQ, Apache Kafka.**
* Experienced in implementing containerization and orchestration using **Docker** and **Kubernetes**.
* Implemented Agile (SCRUM) methodology for the software development process and to produce high quality applications.
* Skilled in performance monitoring using tools like Dynatrace, Kibana and Grafana.
* Demonstrated capability in utilizing Log4j for application logging and troubleshooting.
* Dedicated to continuous learning and staying updated with the latest industry trends to drive innovation and excellence in software development.
* Proven track record of delivering high-quality, scalable software solutions on time and within budget.
* Passionate about leveraging technology to drive business success and improve operational efficiency.

**TECHNICAL SKILLS:**

* **Programming Languages**: Java/J2EE, JavaScript, AngularJS, Reactjs.
* **Web/Distributed technologies**: J2EE, Servlets, JSP, JDBC, XML, UML, Spring, Spring Boot, Hibernate.
* **Scripting**: JavaScript, Typescript, HTML, Shell Scripts, jQuery, JSMVC.
* **Web Servers**: Apache Web Server, Tomcat
* **Application Servers**: IBM Web Sphere, Web logic, JBoss
* **Databases**: Oracle, MySQL, DB 2
* **Webservices/Technology**: SOAP, REST, AJAX, XML, JAXB, IBM MQSeries, JMS, jQuery, JSON 
* **Methodologies**: Rapid Application Development (RAD) Waterfall, Agile, SCRUM.
* **IDE Tools**: Eclipse, Spring Tool Suite, IntelliJ
* **Testing Tools &Case Tools& Utilities**: JUnit, Log4j, Ant, Maven, SVN, TDD, Jenkins, GitHub, Hudson.

**WORK EXPERIENCE:**

# Senior Java Developer | SAP Labs LLC. Palo Alto, CA, USA Oct 2016 to Present

* Designed and implemented high-performance, scalable, and maintainable Java applications using best practices and design patterns.
* Designing and implementing **Java API** using Restful web services, Spring boot, Microservices and **AWS Cloud services.**
* Implemented reusable and composable components in React, leveraging its component-based architecture to modularize UI elements and improve code maintainability.
* Well experienced in the Amazon Web Services (AWS) in architecting and developing the cloud-based infrastructure and applications creating reproducible infrastructure environments for the microservices architecture.

 **LaMa Cloud - Landscape Management Cloud**

* Contributed to the development of Columbus Analytics Service (CAS), a **Spring boot framework** microservice that collects, processes, and stores historical data from cloud providers **(AWS, Azure, GCP)** for analytics, and provides API access along with UI components for LaMa Cloud.
* Designed and implemented **REST APIs** using Java to retrieve reservation utilization data from cloud providers, enabling efficient data aggregation and analysis.
* Developed automated test scripts with **JUnit** to ensure quality for both single-node and multi-tenant operations, significantly speeding up the QA process.
* Collaborated with cross-functional teams to maintain high standards throughout the software development lifecycle, ensuring consistent quality and performance.
* Worked with QA teams to create and implement automated testing frameworks using **Selenium** improving test coverage and efficiency.
* Developed a proof of concept (POC) for an AI chatbot in LaMa Cloud UI using **SAP Conversational AI, enhancing user interaction and support features.**

**LaMa - Landscape Management**

* Led the migration of the LaMa project from a monolithic architecture to a **microservice architecture**.
* Transitioned the UI framework from **Web Dynpro UI** to a modern tech stack, leveraging **JavaScript, TypeScript and React, SAP UI5 and Fiori.**
* Implemented user interfaces using **JavaScript and SAP UI5,** integrating with HANA Cloud to ensure efficient data management and optimal performance for microservices.
* Automated testing using JUnit, enhancing testing efficiency and reliability across the other services.
* Developed **CI/CD pipelines** for seamless versioning and deployment of microservices, following industry best practices.
* Utilized **Jenkins** for continuous integration and deployment, ensuring smooth and automated development processes.
* Managed build automation and dependencies using **Maven**, optimizing the development workflow and maintaining consistency across services.

 **CLM Cloud - Cloud Library Management**

* Engineered a proof of concept (POC) for a microservices architecture using **JavaScript, TypeScript, and Node.js,** deploying services in Docker containers for improved modularity and scalability.
* Architected and implemented cluster orchestration with **Kubernetes,** ensuring high availability, automated scaling, and seamless load balancing for web applications.
* Optimized containerization and deployment processes to enhance resource utilization, boosting efficiency in managing and deploying Node.js services.
* Leveraged Kubernetes for dynamic load balancing, automated scaling, and self-healing features, enhancing the system's robustness and reliability.
* Demonstrated proficiency in managing complex web environments using Kubernetes orchestration for **Node.js based microservices, ensuring optimal performance and scalability.**

# Sr. Java Developer | Syntel Ltd. Pune, India Oct 2011 - Jun 2014

* Developed and maintained **Java-based** applications for various clients, adhering to best practices and coding standards.
* Involved in all the phases of Software Development Life Cycle including Requirement **Analysis, Design, Implementation, Testing and Maintenance.**
* Designed and developed the application using Angular framework along with **HTML5, CSS3, Type Script, Java Script, Bootstrap, Node.js, NPM, Mongo DB.**
* Implemented AngularJS Controllers to maintain each view data. Implemented Angular Service calls using Angular • Created RESTFUL Webservices retail store using Spring Framework and hibernate for Database modifications.
* Using JSP, jQuery and CSS to create a dynamic and rich user interface.
* Responsible for creating efficient design and developing user interaction screens using **HTML5, CSS3, Bootstrap, JavaScript, Angular 8/9, and Node JS.**
* Developed applications using **Angular, Java8** and new features of java (lambda expressions).
* Design and developed the application using framework Angular with **HTML5, CSS3 and Typescript**.
* Developed UI components using Angular dependency Injection, Models, data binding and controllers.

**FedEx** - Enterprise Data Management

* Developed a web-based document tracking application using **JavaScript, TypeScript, HTML, and Oracle for Enterprise Data Management (EDM), ensuring efficient document management for users.**
* Built a logging utility called **“Log Analyser”** for capturing and analysing application logs across multiple servers, refactoring it with JavaScript and TypeScript to improve performance and maintainability.
* Mentored and onboarded new team members and peers, offering guidance on **JavaScript, TypeScript, coding standards**, deployment processes, and monitoring strategies, fostering their professional growth and supporting team success.

**Guitar Centre** - Guitar centre retail store database and network.

* Contributed to the development, enhancement, and deployment of web applications using **Java**, **JavaScript, MySQL** while actively participating in daily operations and report tracking.
* Performed manual and automated testing to ensure the quality and functionality of web applications, identifying and resolving bugs.
* Developed and executed test cases and scripts aligned with system requirements and project specifications to validate application behaviour.
* Worked on enhancing the POS system for the Guitar Centre application, improving user experience and functionality.
* Collaborated with cross-functional teams to ensure quality, adherence to project timelines, and successful delivery of web-based solutions.

**Java Developer | Sadup Tech Jan 2012 to Sep 2012**

* We provide services that help you constantly innovate, launch new products, improve time-to-market capabilities, and maintain large product portfolios at reduced costs.
* Involved in Analysis, design and coding on Java/JSP front end environment.
* Developed application using Servlets, JSP and made JDBC calls from servlets to DB.
* Involved in deployments in all environments like Dev, Test, UAT and Prod, respectively.
* Prepared field validation and on-scenario test cases using JUnit and testing of the module in 3 phases named unit testing and system using testing and regression testing.
* Code and Unit Test according to client standards.
* Used Web logic to deploy applications on local and development environments of the application.
* Used Eclipse for building the application.
* Java Script was used for client-side validation.
* Servlets are used as the controllers and Entity/Session Beans for Business logic purposes.
* Used Oracle Database for data storage, and coding stored procedures, functions and triggers.
* Fix defects as needed during the QA phase, support QA testing, troubleshoot defects and identify the source of defects.

**Software Engineer | SAT Solution LLC June 2011 to Dec 2011**

* Involved in various phases of Software Development Life Cycle (SDLC).
* Identified business requirements of the project.
* Used CSS, HTML, Java Script, JQuery, and AJAX for creating interactive web Application.
* Involved in developing the CSS sheets for the UI Components.
* Used JavaScript for the web page validation.
* Implemented ModelViewController modules and design patterns.
* Developed and debugged the servlets and EJB with WebSphereApplication server.
* Developed view components using JSP pages used in combination with servlets that handles business logic.
* Used SOAP for WebServices by exchanging XMLdata between applications over HTTP.
* Created and modified Stored Procedures, complex SQL Commands for the application using PL/SQL.
* Used ApacheLog4j Logging framework for logging of a trace and Auditing errors in application.
* Involved in troubleshooting bugs and debugging application to enhance performance of the application.

# Academic Project

**Malware Detection in Cloud Computing Aug 2016** Developed a cloud-based web application using JavaScript and TypeScript that identifies malware in virtual machines through machine learning algorithms and behavioural pattern analysis. Maintained a monitoring dashboard for system resources such as CPU usage, memory utilization, and network activity, integrating alarm triggers for security breaches or unusual behaviour. Optimized server-side performance, improving response me by 8-10%, as verified through load testing with JMeter.

# Education

San Jose State University, CA, USA | Master’s in. Software Engineering Aug2016

University of Pune, India | Bachelor of Engineering in Computer Engineering Jun 2011