

Yeswanth Adduru

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SUMMARY

Experienced **Java Spring Boot developer** with expertise in building and deploying **Microservices**, implementing **CI/CD pipelines**, and managing **AWS cloud services**. Proficient in **frontend** technologies like **Angular**, **JavaScript**, and skilled in **UI design** with **Figma**. Expertise in **database management** (**SQL**, **MongoDB**). Efficiently worked in **Agile** teams, designing, optimizing front-end and back-end integrations, successfully delivering software solutions across **Investment**, **Healthcare**, **Finance**, **Aerospace** industries.

SKILLS

- **Backend:** Spring Boot, Spring MVC, Spring Data JPA, Hibernate, JSP, REST APIs, Node JS, jQuery
- **Frontend:** Angular JS, JavaScript, D3.js, React JS, Redux, HTML5, CSS3, Bootstrap
- **Programming Languages:** Java, Python, C, C++, SQL, UNIX
- **Database:** MySQL, Oracle, NoSQL (MongoDB), PostgreSQL
- **Cloud Services:** AWS (S3, DynamoDB, RDS, EC2, Lambda, CloudWatch, ECS)
- **Tools:** Postman, Docker, Kubernetes, Apache Kafka, JUnit, Log4j, Git, Maven, Jenkins, JIRA, Jupyter Notebook, Android Studio

PROFESSIONAL EXPERIENCE

Vanguard, USA

10/2024 – present

Full Stack Java Developer

- Fixed critical bugs in a trading platform built with Java Spring Boot and AWS backend services, improving system reliability and reducing latency for real-time trade execution.
- Acted as **Subject Matter Expert (SME)** for dynamic web services deployed via AWS ECS, guiding container orchestration strategies and optimizing service scalability.
- Collaborated with portfolio managers to enhance trade optimization workflows by integrating **Axioma services** from SimCorp, streamlining investment strategies and boosting operational efficiency.
- Upgraded legacy Spring Boot web services using **OpenRewrite**, automating code refactoring and ensuring compatibility with modern frameworks and security standards.
- Migrated all Bitbucket repositories to GitHub, streamlining CI/CD pipelines and improving collaboration across development teams.
- Implemented **multi-region failover** strategy by configuring AWS services to ensure high availability from eu-west-2 in case of us-east-1 outages, enhancing system resilience.
- Developed AWS Lambda functions to ingest vendor data from SFTP servers into S3 buckets, automating data collection and reducing manual intervention.
- Utilized AWS Step Functions and **State Machines** to orchestrate large-scale data downloads with built-in retry logic, ensuring fault tolerance and process continuity.
- Automated data transfer workflows using AWS **DataSync** to move processed data from S3 to on-premises storage, enabling hybrid cloud integration.
- Designed GraphQL APIs using AWS AppSync, writing efficient mutations and queries to support dynamic data access for client applications.
- Leveraged AWS EventBridge and SQS for scheduled and event-driven Lambda invocations, enabling asynchronous processing and decoupled architecture.
- Integrated AWS SNS notifications to alert downstream services on task completion or failure, improving observability and incident response.
- Developed Angular dashboard using **Material UI**, allowing users to filter and download files based on year, strategy, and filename, enhancing user experience and data accessibility.

McKesson, USA

02/2024 – 10/2024

Full Stack Java Developer

- Developed **Springboot** Microservices using Netflix's **Eureka Client-Server Architecture** and Spring Boot Framework to manage records in **AWS DynamoDB**.
- Developed **REST APIs** for seamless integration between front-end Angular applications and Spring Boot back-end services, enabling real-time access to patient data.
- Configured detailed access controls using **AWS IAM** roles and policies to ensure that only authorized users and services could access or modify patient data in DynamoDB.
- Integrated Java applications with AWS services like **EC2**, **S3**, **Lambda**, and **RDS**, optimizing cloud infrastructure for performance and cost efficiency.
- Transformed a **monolithic** patient Server architecture into **Microservices**, focusing on developing and deploying a containerized tracking service using Docker.
- Implemented **Spring Cloud Gateway** for API routing and load balancing, and integrated **OAuth 2** for Spring Security to ensure secure, role-based access management.
- Implemented **JUnit** and **Mockito** for unit testing and Spring WebTestClient for Integration testing to consistently maintain high code coverage in **SonarQube** ensuring standards of code quality.
- Followed **Agile methodology** by iterative development process, including SCRUM, regular sprints, Unit Testing, and Continuous Integration, to deliver high-quality software solutions.

Newgen Software, India

12/2021 – 05/2022

Senior Software Design Engineer

- Led the **Angular** development for an **Enterprise Service Management (ESM)** tool, optimizing core components and services, enhancing functionality, resulting in improved user experience for enterprise clients.
- Optimized Angular frontend codebase by identifying and removing redundant **API** calls, leading to 30% faster response time and reduced latency.
- Led a team of 10 UI developers to build a **Bank KYC verification** product from concept to launch, driving operational efficiency and compliance.
- Fixed over 85 critical bugs and enhanced the business/service layer of Spring Boot applications, using **SVN** for **version control** and streamlined deployments.
- Integrated real-time push notifications using **Web Sockets**, boosting user engagement in full-stack Java applications.
- Implemented **JWT** token-based authentication for secure API access and developed Single Sign-On (SSO) solutions to enhance user security.
- Performed unit and **integration testing** during System Integration Testing (SIT) phases to ensure code stability.
- Reduced front-end load times by 25% through code-splitting and React Lazy techniques, improving user experience.
- Used **Fetch API** within Angular service implementing GET and POST requests, to send clickstream data to Spring Boot backend for storage and analysis.

- Led the transition of **Airbus PoC** (Proof of Concept) for airplane configuration, delivering an Angular app for interior customization by integrating Java Spring Boot microservices and working with cross-functional teams to ensure successful deployment.
- Utilized **CATIA** to convert 2D SVG coordinates into 3D designs, enabling a precise airplane configuration visualizations.
- Designed **D3.js elements** to allow engineers to easily position plugins within the airplane model, and integrated D3.js visualizations with Angular services to dynamically update the airplane design in response to user input, providing real-time feedback during the configuration process.
- Developed **plugin functionality** to customize the installation of external systems (restrooms, seats) in the aircraft, integrating the plugin placement with Angular services for enhanced customization.
- Developed core Angular components using **Angular 8** and **Ng Prime**, and built business and persistence layers with **Hibernate** and **Spring Data REST** in a Spring Boot application during the POC phase
- Developed a scalable architecture using Spring Boot microservices to handle dynamic plugin functionalities for airplane configuration, optimizing system performance.
- Designed custom **Angular directives** to dynamically generate and control plugin movement and placement, improving the flexibility and interactivity of the application.
- Collaborated with engineers and designers to incorporate flight-type selection logic into the application, enabling the customization of plugin placement based on specific flight models and requirements.
- Engineered D3.js for visual validation of plugin placements, ensuring accurate configuration data for 3D airplane design models, allowing users to visually confirm correct positioning and avoid errors in the configuration process.
- Improved **TAKENAKA's** web application by troubleshooting and resolving 25% of bugs, significantly enhancing the user interface and experience.
- Designed detailed **wireframes** using **Figma**, improving **UX** and aligning interface design with customer expectations.
- Executed comprehensive **API testing** using **Postman**, **SoapUI**, and **Swagger** to validate and ensure robust communication between services.
- Continuously analyzed and enhanced **test coverage** for microservices, actively participating in code reviews, ensuring adherence to coding standards.

PROJECTS

Real-estate Application

- Designed a **full stack** application like **Zillow**, allowing users to rent, buy, sell properties online by listing property details in the portal using **Spring Boot Microservices** in backend, **Angular JS Material UI** in Frontend and configured **AWS RDS** database.
- Leveraged **JWT Tokenization** for authentication, **Hystrix** for **fault tolerance**, **Netflix Eureka** to locate services and load balancing.

Shopify Android App

- Built a shopping cart mobile application in **Android Studio**, using Activities and Fragments for modular navigation and implementing **responsive UI** with XML and ConstraintLayout. Enabled local data persistence with **SQLite** and secured user login through **Firebase** Authentication.

EDUCATION

- **Master's Degree | Information Technology** | University of North Carolina Charlotte, USA | 08/2022 – 12/2023
- Bachelor's Degree | Electrical & Electronics Engineering | SASTRA Deemed University, India | 06/2015 – 05/2019