

VVS Satya Pasupuleti

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EXPERIENCE

Assistant System Engineer

Feb 2022 – Mar 2024

Tata Consultancy Services

Hyderabad, India

- Developed responsive, cross-browser interfaces using **ReactJS, JavaScript, and Redux**, enhancing customer engagement by 20%.
- Collaborated with **UX/UI** teams to deliver accessible, modern web designs that improved usability scores across modules.
- Built and standardized reusable React components, cutting development time by 30% and ensuring consistency across applications.
- Created **RESTful APIs** and **Spring Boot microservices**, enabling data sharing and scalable backend integration.
- Optimized database queries with **Hibernate & JPA**, reducing average query latency by 25% and improving performance.
- Wrote and executed automated tests in **JUnit**, raising code coverage and reducing post-release defects by 15%.
- Contributed to **Agile** sprints through code reviews, sprint planning, and **CI/CD** practices, ensuring timely delivery.
- Deployed applications to **AWS cloud** using Docker and Kubernetes, improving scalability and reducing downtime during peak traffic by 40%.
- Implemented role-based **authentication & authorization** with Spring Security and JWT, strengthening data protection and compliance with industry standards.

Java Full Stack Developer (Trainee)

Sep 2021 – Jan 2022

NSE TalentSprint

Hyderabad, India

- Developed full-stack applications using **Spring Boot, Spring MVC, and Angular**, enabling faster feature delivery and improving scalability.
- Implemented data persistence with **Spring Data JPA and Hibernate**, improving data integrity and reducing query failures.
- Streamlined build and dependency management with **Maven**, cutting integration errors and reducing setup time by 20%.
- Containerized backend services using **Docker**, ensuring consistent deployments across development and production environments.
- Engineered responsive UI components with **Angular and TypeScript**, enhancing usability and overall application responsiveness.
- Secured applications by integrating **Spring Security and JWT-based authentication**, strengthening access control and protecting sensitive data.

PROJECTS

Inventory Management System

Java, Spring Boot, Angular, MySQL, AWS EC2

- Designed and developed a full-stack inventory management application using **Java, Spring Boot, and Angular**, improving efficiency in stock handling and reducing manual effort.
- Built secure **REST APIs** with **JWT authentication** and real-time stock tracking, ensuring data security and accurate inventory monitoring.
- Integrated **MySQL** for backend storage and deployed the solution on **AWS EC2**, enabling scalable and reliable cloud-based operations.
- Automated build and deployment processes with **Maven** and **Jenkins CI/CD**, reducing release time by 40% and minimizing deployment errors.
- Developed reusable **Angular components** with responsive design, enhancing user experience and reducing UI development time by 25%.
- Implemented unit and integration testing using **JUnit and Mockito**, improving code coverage and reducing production defects.
- Collaborated in **Agile sprints**, contributing to sprint planning, daily standups, and code reviews, ensuring on-time delivery of features.
- Configured application monitoring and logging with **Spring Actuator and AWS CloudWatch**, improving system reliability and troubleshooting efficiency.

Hotel Management System

React, Spring Boot, PostgreSQL

- Built a responsive hotel booking platform using **React and Spring Boot**, providing seamless customer experience.
- Implemented role-based access with **JWT**, customer management, and payment gateway integration, ensuring secure and smooth transactions.
- Deployed the application on a cloud platform with **PostgreSQL** as the database, enabling scalable performance and reliable data management.
- Automated builds and deployments with **Maven** and **Jenkins CI/CD**, reducing release cycle time by 35% and improving delivery consistency.
- Designed reusable **React components** with responsive styling, improving front-end performance and reducing UI defects by 20%.
- Conducted unit and integration testing with **JUnit and Mockito**, raising code quality and minimizing post-deployment issues.
- Configured monitoring and logging using **Spring Boot Actuator and ELK stack**, enabling proactive issue detection and faster troubleshooting.
- Collaborated in **Agile sprints**, participating in sprint planning, daily stand-ups, and peer code reviews to ensure timely feature delivery.

SKILLS

Languages: Java, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3.

Backend: Spring Boot, Spring MVC, Spring Security, REST APIs, Microservices, Hibernate, JPA, Maven, Gradle, JUnit.

Frontend: React, Angular, Redux, React Hooks, npm, Webpack.

Databases: MySQL, PostgreSQL, Oracle, MongoDB.

Cloud & DevOps: AWS, Docker, Jenkins, Git, CI/CD.

Tools: GitHub, Bitbucket, Jira, Postman, IntelliJ IDEA, VS Code.

Methodologies: Agile, Scrum, Test-Driven Development (TDD), Behavior-Driven Development (BDD).

Core Concepts: OOPS, Data Structures, Design Patterns, Algorithmic Thinking, Security Best Practices.

EDUCATION

Elmhurst University

Elmhurst, IL

Master's in Computer Information Technology

Aug 2023 - May 2025

Sankethinka Institue of Technology And Management

Visakhapatnam, India

Bachelor of Technology in Mechanical Engineering

Jun 2018 - Aug 2021

Certifications: AWS Certified Cloud Practitioner, Full Stack Web Development with Angular Specialization, Docker & Kubernetes for Java Developers.