SAI POOJA REDDY PALLE

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL

Backend: Spring Boot, REST APIs, Microservices, Hibernate, JPA

Databases: MySQL, PostgreSQL, MongoDB

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Jenkins, CI/CD, Infrastructure as Code

Concepts: Object-Oriented Design, Data Structures, Algorithms, Design Patterns

Tools: IntelliJ, Eclipse, Git/GitHub, Postman, JIRA, Maven

Testing: JUnit, Mockito, Integration Testing

Agile Practices: Scrum, XP, TDD

EXPERIENCE

Northwest Missouri State University - Graduate Assistant   Jan 2024 - Apr 2025

- Developed full-stack modules using Spring Boot (Java) and Angular, enabling personalized academic dashboards.
- Integrated backend APIs with role-based access and authentication using Spring Security.
- Delivered UI components with Angular and Bootstrap, optimized for accessibility and mobile responsiveness.
- Wrote backend logic and connected MySQL for CRUD operations and dynamic reports.
- Participated in design discussions, documented code flow, and provided peer code reviews.
- **Environment**: SpringBoot, JPA, Angular and Bootstrap, HTML, CSS, SQL, SQLite

HighRadius Technologies Pvt Ltd – Software Engineer, Onsite   Sep 2021 – Sep 2022

- Developed and deployed 10+ microservices using Spring Boot**,** JPA, and REST APIs from scratch, reducing batch processing time by 35%.
- Developed secure, scalable backend services using Java 8, Spring, and JPA, reducing invoice processing latency by 35%.
- Refactored legacy **JSP** pages to modular Angular components, improving maintainability and scalability.
- Built and maintained scalable data pipelines, optimizing SQL queries for PostgreSQL databases, improving data retrieval performance by 40%.
- Implemented AWS-based solutions with ECS**,** S3**,** EC2**,** Aurora**,** API Gateway, and Route 53, improving service uptime and scalability by 40%.
- Containerized microservices using Docker and deployed to Kubernetes clusters, enhancing system reliability and reducing downtime.
- Designed and executed end-to-end test cases using JUnit and Cucumber, improving code quality with 85% test coverage.
- Integrated Splunk for application performance monitoring, reducing average incident resolution time by 30%.
- Applied **object-oriented design patterns** and algorithms to enhance system reliability and scalability.
- Led requirements gathering sessions with business stakeholders, translated functional needs into technical design documents, and ensured on-time delivery.
- Collaborated with backend and design teams using GitHub and Agile boards to meet weekly sprint deliverables.
- Participated in Agile ceremonies, performed code reviews, and wrote unit tests (JUnit/Mockito) achieving 90% test coverage.
- Managed deployment pipelines with Jenkins**,** Git**,** Maven**,** and Bitbucket, automating CI/CD workflows.
- Built responsive user interfaces using React**,** HTML, and CSS, improving frontend responsiveness and user experience.
- **Environment**: TypeScript, ReactJS, Redux, Java8, Spring Boot,JPA, MongoDB, PostgresSQL, JMeter, Postman, AWS(ECS,S3,EC2,Aurora,API Gateway), Jenkins, Docker,Kubernetes,Splunk.

ACADEMIC PROJECTS

Ecomerce Website

- Developed and maintained backend services using Java, Spring Boot, and RESTful APIs to manage product listings, user authentication, and order processing.
- Implemented role-based access control for admins and customers, ensuring secure data handling and dynamic view rendering.
- Designed and optimized MySQL database schemas with JPA/Hibernate, improving query performance by 30%.
- Applied Spring Security for authentication/authorization and developed unit tests (JUnit/Mockito) to ensure high backend reliability.

Todo Web Application

- Developed categorized task manager with Angular + Firebase, leveraging RxJS Observables for real-time UI updates.
- Applied dynamic form binding and integrated responsive card layouts with custom colors for visual clarity and UX.
- Designed a task tracking app using Angular and Firebase, applying two-way binding, form validation, and responsive layouts with Bootstrap.
- Built with responsive layout and integrated visual feedback using ngx-toastr.

SmartTrack – School Bus Tracking System
- Integrated authentication and role-based access for admin, driver, and parent users.
- Built a Node.js and MongoDB-based full-stack app to track school buses in real-time with live location sharing.
- Designed the frontend with HTML, CSS, and responsive React components.

Exploratory Data Analysis [pandas, R]
- Loaded a 10 different data sets from Kaggle and conducted some analysis using the Pandas library and R software to get the detailed insights of the data.
- Documented the insights to get a clear picture of the data set.

Android Task Monitoring
- Created a task management API in **Node.js**, supporting CRUD operations with authentication and role-based access.
- Connected backend with **SQLite** and tested endpoints using Postman and Jest.
- Documented full API usage for frontend integration, enhancing dev onboarding and usability.

Advanced employee management system
- Built an employee management system that consolidates all the relevant information on a company's human resources.
- Designed an admin portal for admin in charge of managing company information, leave management, and payroll, and can also add and tweak employee details. Employees use the system to check their leave status, view salary details, and yearly holiday lists, and for voicing grievances or resigning.

EDUCATION

Master of Science, Computer Science   Jan 2024 - Apr 2025
Northwest Missouri State University, MO.   GPA: 3.9
- **Related coursework:** Data Mining, Database Systems, Design and Analysis of algorithms, Machine Learning, Data Analysis and Modelling Techniques, Computer Networking.

Bachelor of Technology in Computer Science Engineering   Jun 2017 - Jul 2021
Sphoorthy Engineering Collage, Hyderabad, India.   GPA: 3.42
- **Related coursework:** Computer Networks, Data Structures, Software Engineering, Cyber Security, Internet of things.