POOJITH REDDY ANNACHEDU

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SUMMARY

Software Engineer with **4+ years of experience** in designing and developing scalable web applications, microservices, and AI-integrated platforms. Proven track record across fraud detection, payroll systems, and agent-based architectures using **Java, Spring Boot, React**, and **AWS**. Strong in backend engineering, cloud deployments, and building reliable systems that solve real-world business problems.

WORK EXPERIENCE

Reality Agent Platform   Oct 2024 – Apr 2025
Software Engineer Intern   San Francisco, United States

- Built a presentation generation tool using Reveal.js and enhanced an MCQ generator by integrating Plate.js with Next.js to enable dynamic editing capabilities. Utilized Redux Toolkit for state management, leading to a 25% increase in UX.
- Engineered AI workflow orchestration by integrating LangGraph for agent communication and Gemini 1.5 for structured LLM outputs. Used Redis to cache frequently accessed results, reducing response time and improving system efficiency by 30%.
- Implemented CI/CD pipelines with GitHub Actions and Docker for automated deployments to Firebase Functions and GCP Cloud Run. Managed Firestore and Authentication, and enabled real-time debugging via LogRocket, achieving zero-downtime rollouts.

ADP   Apr 2021 – Jul 2023
Software Engineer   Hyderabad, India

- Developed and optimized backend services for the ADP Payroll Fraud detection system using Spring MVC, Kafka, and Spring Data JPA, resulting in a 30% increase in system throughput and reduced fraud processing latency.
- Integrated method-level Spring Security to enforce role-based access, enhancing ADP data protection and compliance.
- Implemented secure data logging using AWS Lambda and S3, enhancing traceability and audit readiness while improving W-2 processing speed 14× and reducing API response time by 55% for ADP's Wage Payments system.
- Assisted in migrating 120+ enterprise applications from EV5 to EV6 using ADP's OneNext Tool, leveraging AWS cloud services to achieve 99.9% uptime and improved operational scalability.

Prometheus Patent Services   Dec 2019 – Mar 2021
Software Developer Intern & Software Engineer   Hyderabad, India

- Optimized IP workflow automation by developing and deploying a Jakarta EE-based patent management system, reducing manual workload and ensuring 99.9% deadline compliance using Java Servlets, JSPs, and MySQL.
- Designed a scalable Spring Boot-powered patent search API with multi-threading and indexing optimizations, improving data retrieval speed by 35% while processing millions of legal documents in MySQL and NoSQL databases.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C, C++, SQL, HTML, CSS
Web Technologies & Frameworks: React.js, Next.js, AngularJS, JSON, Redux, SOAP, XML, REST API, FastAPI, Flask, Node.js, Git
Java & Spring Ecosystem: Spring Boot, Spring MVC, Spring Security(OAuth2, JWT), Spring Data JPA, Spring Cloud, Spring AOP, Spring Test, J2EE, Jakarta EE, JSP, Servlets
Databases & Messaging Systems: MySQL, PostgreSQL, MongoDB, Elasticsearch, Firebase, DynamoDB, Kafka, SNS, JPA
Cloud Platforms & DevOps: AWS, GCP, Docker, Kubernetes, Jenkins, GitHub Actions, Prometheus, Grafana, Tempo, Loki
Software Engineering Practices: Microservices Architecture, Design Patterns, Object-Oriented Programming, Data Structures & Algorithms, High-Level Design, Low-Level Design, Test-Driven Development, Agile, CI/CD Pipelines

PROJECTS

RetailPulse | *Spring Boot, Kafka, MongoDB, MySQL, Docker, Kubernetes, Resilience4J, Prometheus, Grafana*   **GitHub** ⬈

- Developed a retail management system with Spring Boot microservices for products, orders, inventory, and notifications, deployed via Docker and orchestrated with Kubernetes.
- Implemented async Kafka communication (Order → Notification) and RESTful sync APIs (Order → Inventory) to decouple services; secured APIs via Keycloak and Resilience4J circuit breakers.
- Enabled real-time observability using Prometheus, Grafana, and Loki, reducing debugging time by 40% and improving system transparency across distributed services.

SmartHomes | *Java Servlets, React.js, MySQL, MongoDB, Flask, Elasticsearch, Docker, OpenAI, JavaMail*   **GitHub** ⬈

- Built a full-stack e-commerce platform with multi-role access (StoreManager, Customer, Salesmen) using Java Servlets and React.js, supporting product, order, account, and cart workflows.
- Developed customer service and recommendation modules by integrating OpenAI GPT-4o via LangChain and Python Flask APIs, enabling semantic product search and automated ticket triaging with image/text input.
- Enhanced search accuracy by 60% using Elasticsearch with OpenAI embeddings for semantic review search; containerized services with Docker and implemented order email flows using JavaMail.

EDUCATION

Illinois Institute of Technology, Chicago, IL   Aug 2023 – May 2025
Master's in Computer Science (MCS), CGPA: 3.83/4.0

AWARDS & CERTIFICATIONS

- AWS Certified Cloud Practitioner and Associate Developer, Start Tech Certified SQL developer.
- Certified in Problem Solving and Python Programming; achieved a Python Gold-level badge after completing 100+ coding challenges on HackerRank.
- Solved over 500+ coding problems on LeetCode, InterviewBit, and HackerRank, demonstrating proficiency in DSA.