POOJITH REDDY ANNACHEDU

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EDUCATION

Illinois Institute of Technology, Chicago, IL <div align="right">Aug 2023 – May 2025</div>
Master's in Computer Science (MCS), CGPA: 3.83/4.0

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C, SQL, HTML, CSS
Web Technolgoies & Frameworks: React.js, Next.js, Redux, RESTAPI, Spring Boot, Spring, JSP, Servlets, FastAPI, Flask, Node.js
Databases & Messaging Systems: MySQL, PostgreSQL, MongoDB, Elasticsearch, Firebase, DynamoDB, Kafka, SNS
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

WORK EXPERIENCE

Reality AI <div align="right">Oct 2024 – Apr 2025</div>
Software Engineer Intern <div align="right">San Francisco, United States</div>
- 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 user experience
- 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 <div align="right">Apr 2022 – Jul 2023</div>
Software Engineer <div align="right">Hyderabad, India</div>
- Developed and refined high-performance backend services using Spring MVC, Kafka, JPA, and Hibernate, improving system throughput by 30% and reducing fraud processing latency. Integrated APIs with AWS API Gateway for scalable request handling.
- Engineered and launched two microservices using Spring Boot and MongoRepository to handle 300+ fraud alerts daily, increasing fraud detection accuracy by 35% and reducing manual intervention.
- Implemented a secure data logging pipeline using AWS Lambda and S3 to archive high-volume API transactions, enabling traceability and audit readiness across compliance-focused environments.
- 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 <div align="right">Dec 2020 – Mar 2022</div>
Software Developer Intern & Software Engineer <div align="right">Hyderabad, India</div>
- 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.

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.

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.