

POOJITH REDDY ANNACHEDU

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SUMMARY

Software Engineer with 3+ years of experience designing and developing scalable distributed systems, microservices, and payment-focused platforms. Proven expertise in backend engineering, system optimization, and debugging large-scale production systems. Strong background in financial applications, cloud deployments, and building reliable, high-performance systems.

WORK EXPERIENCE

Kaplan

Software Engineer

May 2024 – Present
Chicago, United States

- Architected a dynamic presentation automation platform using Reveal.js, integrating Plate.js and Next.js to enable seamless MCQ editing and elevating user satisfaction by 25% through Redux Toolkit-powered state management.
- Engineered robust AI workflow orchestration leveraging LangGraph, LangSmith, Redis caching, RAG pipelines, and semantic search embeddings to accelerate distributed processing and boost system response times by 30%.
- Spearheaded automation of CI/CD pipelines with GitHub Actions, Docker, and Kubernetes, enabling frictionless deployments to Firebase Functions and GCP Cloud Run while enhancing system reliability and scalability.
- Advanced cloud-native infrastructure and agile delivery, implementing comprehensive monitoring and observability with Prometheus and Grafana to drive operational excellence across engineering teams.

ADP

Software Engineer

Apr 2022 – Jul 2023
Hyderabad, India

- Optimized distributed, high-performance backend for ADP Payroll Fraud Detection using Spring MVC, Kafka, and Spring Data JPA, leveraging caching and asynchronous processing to boost throughput by 60% and reduce latency.
- Implemented scalable data logging for ADP Wage Payments with AWS Lambda and S3, improving traceability and audit readiness.
- Enhanced W-2 processing speed by 14× and reduced API response time by 55% using AWS Step Functions, CloudWatch.
- Integrated Spring Security with AWS Cognito for role-access, enhancing data protection and compliance; modernized by migrating 120+ enterprise applications from EV5 to EV6 using ADP's OneNext tool and AWS EC2/CloudFormation.

Prometheus Patent Services

Software Developer Intern & Software Engineer

Dec 2020 – Mar 2022
Hyderabad, India

- Optimized IP workflow automation by developing and deploying a Jakarta EE-based patent management system on Azure, 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 Azure Cosmos NoSQL DB.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, Go, C, C++, SQL, HTML, CSS

Web Technologies & Frameworks: ReactJS, NextJS, Redux, JSON, XML, SOAP, REST API, GraphQL, FastAPI, Node.js, Git

Core Java: Java 8-21, J2EE, Jakarta EE, JSP, Servlets, Hibernate, JPA, JDBC

Spring Ecosystem: Spring Boot, Spring MVC, Spring Security (OAuth2, JWT), Spring Data JPA, Spring Cloud, Spring Test

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: Design Patterns, Object-Oriented Programming, Data Structures & Algorithms, High-Level Design, Low-Level Design, Unit Testing, Test-Driven Development, Agile, CI/CD Pipelines


PROJECTS

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

[GitHub](#) 

- Built Spring Boot microservices for retail workflows (products, orders, inventory, notifications); deployed via Docker and Kubernetes
- Implemented Kafka communication secured with Keycloak and Resilience4J to decouple services and enhance fault tolerance.
- Architected real-time observability using Prometheus, Grafana, and Loki, streamlining system diagnostics and cutting debugging time

SmartHomes | *Java Servlets, React.js, Fastapi, Elasticsearch, Docker, OpenAI, RAG, JavaMail*

[GitHub](#) 

- Engineered a full-stack e-commerce platform with role-based access and modular product, order, and cart workflows.
- Integrated GPT-4o via LangChain and FastAPI with embeddings for Elasticsearch-powered semantic search and AI ticket triaging
- Containerized application using Docker, implemented CI/CD pipelines, and automated email notifications via JavaMail

EDUCATION

Illinois Institute of Technology, Chicago, IL

Master's in Computer Science (MCS), CGPA: 3.5/4.0

Aug 2023 – May 2025
Awarded \$12,000 scholarship

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 on HackerRank
- Solved over 500+ coding problems on LeetCode, InterviewBit, and HackerRank, demonstrating proficiency in DSA.