

POOJITH REDDY ANNACHEDU

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EDUCATION

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

Aug 2023 – May 2025

TECHNICAL SKILLS

Programming and Web Development: Java (Core Java, Java EE), Python, JavaScript, HTML, CSS, C
Frameworks and Libraries: ReactJS, NextJS, Hibernate, Java EE, JPA, JSP, Servlets, JUnit, Maven, Eclipse
Spring Ecosystem: Spring Boot, Spring MVC, Spring Security, Spring AOP, Spring Data JPA, Spring Cloud, Spring Batch
Databases and Messaging: MySQL, PostgreSQL, MongoDB, Elasticsearch, Firebase, ActiveMQ, Kafka
Cloud and DevOps: AWS, Azure, GCP, Docker, Kubernetes, Jenkins, Prometheus, Grafana, Tempo, Loki, Log explorer, Log rocket
Software Development: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), High-Level Design (HLD), Microservices, REST API, Design Patterns, Clean Architecture, Agile, CI/CD Pipelines, TDD, SAFE Agile Framework

WORK EXPERIENCE

Reality AI Lab

Oct 2024 – Present

Software Engineer Intern

San Francisco, United States

- Designed and implemented backend solutions for AI workflows using Python FastAPI, LangGraph, and Spring Boot, improving agent responsiveness and achieving a 30% system efficiency. Leveraged Firestore DB for scalable and efficient data management.
- Enhanced the MCQ generator by integrating Plate.js with Next.js, creating an intuitive editor that improved user interaction and increased content generation efficiency by 25%.
- Streamlined CI/CD pipelines with Docker and GitHub Actions, ensuring smooth feature rollouts to Firebase hosting and GCP CloudRun with zero downtime. Utilized Log Explorer and LogRocket for effective monitoring, debugging, and real-time issue resolution.

ADP

Apr 2022 – Jul 2023

Software Engineer

Hyderabad, India

- Developed and refined high-performance backend services using Spring Boot MVC, Kafka, Redis, JPA, and Hibernate, improving system throughput by 30% and reducing processing latency.
- Engineered and launched two large-scale microservices using Spring Boot and MongoRepository to handle 300+ fraud alerts daily, improving fraud detection efficiency by 35%.
- Devised a data logging system with AWS S3 for secure and scalable storage of high-volume API requests and responses, ensuring reliable data retrieval.
- Spearheaded the migration of 120+ enterprise applications from EV5 to EV6 using OneNext Tool, achieving 99.9% uptime and enhancing operational efficiency by leveraging AWS cloud services for seamless scalability.

Prometheus Patent Services

Dec 2020 – Mar 2022

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 by 40% 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.
- Engineered a secure patent repository with TLS-encrypted data transfer and AWS S3 cloud storage, ensuring global collaboration and compliance with data protection regulations.

PROJECTS

Microservices-Based Retail Management System [GitHub](#)

- Built a microservices-based retail platform using Spring Boot, Kafka, MongoDB, and MySQL, enabling seamless product and order management. Optimized workflows to improve order processing efficiency by leveraging asynchronous communication.
- Integrated observability tools such as Grafana, Prometheus, and Tempo, enabling real-time monitoring and diagnostics. Reduced debugging time by 40% through distributed tracing and centralized logging with Loki.
- Containerized services using Docker and automated deployments with Kubernetes for seamless scaling. Conducted rigorous integration testing with TestContainers, ensuring robust service interoperability in dynamic environments.

SmartHomes E-commerce Platform [GitHub](#)

- Developed a SmartHomes platform with a microservices architecture, utilizing Java Servlets, React, and MySQL, engineered seamless management of smart device orders, shipment tracking, and real-time inventory updates.
- Integrated OpenAI's LLMs and Autogen Gen AI for customer query resolution and implemented CI/CD pipelines using Docker and Kubernetes for containerized deployments, ensuring zero downtime during feature rollouts.
- Fine-tuned database queries using MongoDB and utilized Elasticsearch for semantic product search and analytics, enhancing search accuracy and performance by 60% for faster query execution.

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.