

POOJITH REDDY ANNACHEDU

☎ [773-949-4319](tel:773-949-4319)

✉ poojithannachedu.work@gmail.com

[Linkedin](#)

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EDUCATION

Illinois Institute of Technology, Chicago, IL

Aug 2023 – May 2025

Master's in Computer Science (MCS), CGPA: 3.83/4.00

Technical Skills

Programming and Web Development: Java, Python, JavaScript, Dart, HTML, CSS

Frameworks and Libraries: ReactJS, Hibernate, 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, ActiveMQ, Kafka

Cloud and DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, Prometheus, Grafana, Tempo, Loki

Software Development: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), High-Level Design (HLD), 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, 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%. Focused on seamless frontend-backend integration to optimize the user experience.
- Streamlined CI/CD pipelines with Docker and GitHub Actions, ensuring smooth feature rollouts and 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 optimized 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.
- Orchestrated robust CI/CD pipelines with Jenkins, ensuring zero deployment failures across four environments, while managing Agile sprints to deliver new features faster.

Indian Servers

Mar 2021 – Jul 2021

Software Developer Intern

Hyderabad, India

- Developed a lightweight API testing tool using React and Java, reducing testing time by 40% for 15+ endpoints.
- Created authentication and database operations using Java Servlets, increasing system reliability by 25%.
- Integrated MongoDB with Java for logging activity, enabling real-time monitoring of 300+ transactions per day.

PROJECTS

Microservices-Based Retail Management System (GitHub)

Oct 2024 – Present

- 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.
- Designed RESTful APIs with Keycloak-secured authentication and Resilience4J circuit breakers, ensuring robust fault-tolerant communication between services. Improved system reliability and scalability, handling edge cases effectively.
- 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)

May 2024 – Sep 2024

- Developed a SmartHomes platform with a microservices architecture, utilizing Java Servlets, React, and MySQL, enabling 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.
- Optimized 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 400+ coding problems on LeetCode, InterviewBit, and HackerRank, demonstrating proficiency in DSA.