Poojith Reddy Annachedu

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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.
- Implemented 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**
Member Technical   *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%.
- Implemented 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**
Web Developer Intern   *Hyderabad, India*

- Assisted in developing a lightweight API testing tool using React and Java to streamline basic testing workflows.
- Supported the creation of APIs for authentication and database operations, improving system reliability.
- Contributed to integrating MongoDB for logging API activity and enhancing data security.

PROJECTS

Microservices-Based Retail Management System   **Oct 2024 – Present**

- ∗ Built a scalable **microservices-based retail platform** using **Spring Boot**, **MongoDB**, **MySQL**, and **Kafka** for seamless product and order management.
- ∗ Implemented **observability tools** like **Grafana**, **Prometheus**, and **Loki**, with distributed tracing via **Tempo** for robust monitoring.
- ∗ Containerized services with **Docker**, orchestrated with **Kubernetes**, and conducted integration testing using **TestContainers**. Enhanced security using **Keycloak** for role-based authorization and automated CI/CD pipelines with **Jenkins**.
- ∗ Designed and developed **RESTful APIs** to enable seamless interaction between microservices and external clients, ensuring scalability and reliability.

SmartHomes E-commerce Platform   **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.
- ∗ Optimized **database queries** using **MongoDB** and utilized **Elasticsearch** for semantic product search and analytics, enhancing search accuracy and performance.

Awards & Certifications

- AWS Certified Cloud Practitioner and Associate Developer.
- Certified in Problem Solving and Python Programming; achieved a Python Gold-level badge after completing 100+ coding challenges on HackerRank.
- Solved over 300+ coding problems on LeetCode, InterviewBit, and HackerRank, demonstrating proficiency in DSA.