

Chaitanya Swaroop Kumar Allu

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EDUCATION

Master of Science in Computer Science (Software Engineering)

University of Missouri, Kansas City

GPA: 4/4

August 2023 - Present (Expected May 2025)

TECHNICAL SKILLS

Programming Languages: Java, Go, Python, JavaScript, HTML

Frontend: React JS

Backend: Spring, Spring Boot, Hibernate, Spring Data JPA, Junit, Mockito, Spring Security, Redis, Apache Kafka, Microservices

Databases: MySQL, NoSQL (MongoDB)

API Technologies: RESTful APIs, gRPC, GraphQL

Essentials: Data Structures and Algorithms, Object Oriented Analysis and Design (OOP), System Design, Git, Bash, Linux, Design Patterns, SOLID Principles, Software Development Life Cycle (SDLC), Debugging, Problem Solving, Docker, Kubernetes

WORK EXPERIENCE

Software Engineer @ Wipro Technologies, India

September 2021 - May 2023

- Programmed end-to-end robust and scalable APIs, optimizing the response time of APIs from ~500 ms to ~50 ms and streamlining seamless integration with third-party services with best practices.
- Achieved an exceptional 90% test coverage across multiple services using JUnit and Mockito, spearheading a significant reduction in post-release defects and ensuring the delivery of high-quality, reliable software.
- Contributed to developing products module in a microservices architecture, orchestrating a 50% reduction in response time using powerful sorting and filtering using elastic search to allow for efficient discovery of products.
- Resolved intricate technical issues, consistently maintaining a 99% system uptime, and earned recognition for effective problem resolving in a production environment.
- Closely observed the execution of caching strategies and optimized some database queries and improved overall response time by 30%. This significantly enhanced the user experience in an application, and achieved a 25% improvement in content retrieval efficiency and reduced latency.
- Designed and developed reusable React JS components, resulting in a reduction in code redundancy and significantly accelerating the implementation of new features in web applications.

PROJECTS & RESEARCH

E-Commerce Application - [Tech stack: Spring Boot, Spring Cloud, MySQL, Redis, Razorpay Payment Gateway, JUnit, Kafka]

- Architected a Microservices based E-Commerce Platform with support of core functionalities of any e-commerce website like Product Catalog, Payment Gateway Integration, Order Service, Notification Service etc.
- Implemented Event Driven Email Service to allow sending emails at large scale across different services within the Platform.

Full Stack Social Media Application - [Tech stack: React, Spring Boot, Tailwind CSS, Spring Security, JWT , MySQL, Razorpay]

- Built end-to-end robust Twitter full clone, with the implementation of user authentication, authorization, rich tweet functionalities, profile customization, and efficient search functionalities and payment gateway integration.

Scalable Notes API - [Tech stack: REST API, Spring Boot, Spring Security, JWT , MySQL]

- A scalable API designed for efficient management like retrieval, storing and sharing digital notes.

Movie Booking Application - [Tech stack: Java, Spring Boot, Spring Data JPA, MySQL]

- A movie ticket booking application, enabling users to browse the movies, select them and purchase tickets online.

Vertex K Graph Labelling for Non-Homogeneous Caterpillar Graph - [Tech stack: Java, Data Structures, Graph Theory]

- The research project focused on the efficient labeling of edges and vertices adhering to specific constraints, that has many applications in circuit design, radar, communication network address etc.

Enhanced Telehealth System's Security through ECC, ChaCha20, SHA-3 - [Tech stack: Java, Springboot, Cryptography]

- The research project boosts telehealth security using Elliptic Curve Cryptography (ECC) for key generation, ChaCha20 for rapid data encryption, and SHA-3 for data integrity focusing on data protection and integrity, employing Java Bouncy Castle for implementation.

CERTIFICATES

[Data Structures and Algorithms Specialization by University of California, San Diego](#) | [Java Programming](#)

[The Complete Oracle SQL Certification](#) | [Crash Course on Python by Google](#)

[Basics of Web - Internet fundamentals](#) | [Programming for Everybody](#)