

CHAKRADHAR GRANDHI

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EDUCATION

Northeastern University | Boston, MA

Master of Science in Information Systems

Dec 2024

Coursework: Application Engineering and Design, Web Design and User Experience Engineering, Relational Database Management System

Amrita Vishwa Vidyapeetham | Coimbatore, India

Bachelor of Technology in Computer Science

Jun 2016 - Jul 2020

Coursework: Object Oriented Programming, Cloud Computing, Operating Systems, Distributed Systems, Software Engineering

EXPERIENCE

WhoozCooking | Boston, MA

Software Engineering Intern

Jan 2024 – Jul 2024

- Drove **\$64,000 in annual** savings for optimizing delivery logistics and mitigating bugs by integrating **DoorDash API** using **Java8, Hibernate**
- Enhanced session management using **Java, OAuth2, JWT, Spring JPA**, boosting system reliability by 20%, and reducing unauthorized access
- Improved event processing efficiency by **40%** by implementing Apache Kafka for streamlined message handling across microservices
- Implemented scheduling alerts with Twilio APIs, leveraging **Docker** and **Git** for delivery automation, **cutting message latency by 25%**
- Led data migration from **MongoDB** to **AWS Document DB** using **AWS DMS, Lambda**, improving data accessibility with other AWS services
- **Core Technologies:** Java8, Spring boot, Maven, Restful API, Kafka, JavaScript, Postman, Mongo DB, AWS

Cisco Systems | Bengaluru, India

Software Engineer II

Aug 2021 – Aug 2022

- Created microservices backend to process real-time router triggers using **Java, Spring boot, Kafka, Postgres**. Employed **JUnit, Mockito**, and **Selenium** for test-driven development (TDD), **achieving 96% accuracy and 90% code coverage**
- **Saved \$120,000 annually in hardware maintenance** by building a service that links downstream and upstream systems using **AWS SNS, SQS**
- Guided a team of 7 junior engineers by facilitating knowledge transfer sessions and **Agile** training to enhance their expertise
- **Core Technologies:** Java8, Spring boot, Restful API, Apache Kafka, AWS, Jenkins, Docker

Software Engineer I

Jul 2020 – Jul 2021

- **Generated \$1,000,000 in annual revenue** by crafting a real-time financial analytics module using **React, Mongo DB, Node.js, Express.js**
- Deployed an AWS-triggered high-performance, low-latency software service to extract encrypted payloads from **AWS S3**, indexing them to **Elasticsearch**, bolstering **operational efficiency by 30%**
- Automated **CI/CD** pipelines with **Jenkins** and **Git**, halving release cycle times; optimized productivity to reduce **deployment failures by 40%**
- **Core Technologies:** Java8, Spring boot, Restful API, AWS, React.js, Node.js, Express.js, Git, Jenkins

Software Engineering Intern

Jan 2020 – Jun 2020

- Created a network protocol analytical tool employing **Python, Flask, Scapy, MongoDB**, with **cronjobs** facilitating daily data exports to third-party applications; this innovation resulted in a **30% increase in response time by completing tasks in under 10 minutes**
- Identified and resolved a critical bug in the web app creation pipeline, optimizing YAML file header size using **Python** and **Docker**; leveraged Postman Workflows to enhance API functionality, resulting in a **30% increase in system reliability**
- **Core Technologies:** Python, Flask, Restful API, Scapy, MongoDB(pymongo), Postman, Docker

PROJECTS

Stocks Management System - [Link](#) (Java, Spring Boot, Kafka, GraphQL, RESTful APIs, H2)

- Architected a stock management system with Alpha Vantage API for **real-time data integration**, employing design patterns like Dependency injection, Singleton, etc. Utilized **Kafka** for fault-tolerant message queuing for better order execution, ensuring 99% uptime
- Developed GraphQL API and Restful API services for seamless stock order management, cutting data retrieval times by 40%

Chat Application - [Link](#) (Java, Spring boot, Kafka, H2, React.js, Node.js)

- Pioneered real-time messaging with **Kafka**, Axios, ensuring fast and reliable API communication with minimal latency
- Incorporated JWT for application security and role-based access control, leveraging H2 for efficient testing and seamless integration

TECHNICAL SKILLS

Programming Languages | Java8, JavaScript, Python, C++, C

Tools and Frameworks | RESTful API, Spring Boot, Spring, React.js, Node.js, Express.js, Git, SQL,

DevOps and Cloud | AWS (EC2, S3, RDS, Lambda, DMS, SNS, SQS, Elasticsearch), Docker, Jenkins, Kafka

LICENSES AND CERTIFICATIONS

[J.P Morgan Chase Software Engineering Simulation - Forage \(React, TypeScript\)](#)