CHAKRADHAR GRANDHI

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EDUCATION

Northeastern University   **Dec 2024**
Master of Science in Information Systems   *Boston, MA, USA*
Coursework: Application Engineering and Design, Web Design and User Experience Engineering, Relational Database Management System

Amrita Vishwa Vidyapeetham   **Jun 2016 - Jul 2020**
Bachelor of Technology in Computer Science   *Coimbatore, India*
Coursework: Object Oriented Programming, Cloud Computing, Operating Systems, Distributed Systems, Software Engineering

EXPERIENCE

WhoozCooking   **Jan 2024 – Jul 2024**
Software Engineering Intern   *Boston, MA, USA*
- Built microservice for image optimization using **Angular and JavaScript,** achieving 32% lossless compression and 2-second faster load times
- Led data migration from **MongoDB** to AWS Document DB using AWS **DMS**, **Lambda**, improving data accessibility and scalability by 15%
- Mitigated delivery fee bugs, and integrated **DoorDash** API using Java and Hibernate to optimize logistics, driving ~$64K in annual savings
- Enhanced session management using OAuth, JWT, **Spring JPA**, and **Java**, system reliability of 20%, and reduced unauthorized access
- Implemented scheduling alerts with Twilio APIs, leveraging **Docker** and **Jenkins** for delivery automation, cutting message latency by 25%

Cisco Systems   **Aug 2020 – Apr 2022**
Software Engineer   *Bengaluru, India*
- Created **microservices** backend to process real-time router triggers using Java, **Postgres**, **Spring Boot**, and **Kafka**. Employed **JUnit**, **Mockito**, and **Selenium** for test-driven development (TDD), achieving 96% accuracy and 90% code coverage
- Crafted financial analytics module using **React**, Mongo DB, **Node JS**, and **Express JS** for real-time insights, generating $1M annual revenue
- Automated **CI/CD** pipelines with Jenkins and **Git**, hal ving release cycle times, reducing deployment failures by 40%, optimizing productivity
- 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%
- Engineered service using **AWS SNS**, and **SQS** to connect downstream to upstream services reducing $120K yearly in hardware maintenance
- Supervised and mentored a team 7 junior developers, providing **Agile** training and knowledge transfer sessions to enhance their expertise

Cisco Systems   **Jan 2020 – Jul 2020**
Software Engineering Intern   *Bengaluru, India*
- Created a robust analytical tool employing Python, Flask, Scapy, and MongoDB, with cronjobs facilitating daily data exports to third-party applications; this innovation resulted in a 30% increase in response time by completing tasks 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

PROJECTS

Stocks Management System (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. Incorporated **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%
- Executed **H2** with JUnit and **Spring Tests** for rapid, isolated testing, improving overall development efficiency by 50%

E-Commerce Grocery Application (React, Redux, NodeJS, Node Mailer, Twilio, MongoDB)
- Streamlined React components and managed state using **Redux**, improving performance by 30% and enhancing code maintainability
- Fashioned imports, code splitting, lazy loading, and error boundaries using Webpack, slashing initial load time by 30%
- Devised email verification system, integrated mobile OTP, secured PayPal payments with **OAuth** 2, simplifying registrations and transactions

TECHNICAL SKILLS

Programming Languages	Java, JavaScript, Python, C++, C
Frameworks	RESTful API, Spring Boot, Spring, Flask, Django
Web Development	React, Node.js, Express, GraphQL, Swagger UI, Angular, HTML, CSS,
DevOps and Cloud	AWS (EC2, S3, RDS, Lambda, DMS, SNS, SQS, Elasticsearch), Docker, Jenkins, Kafka
Tools and Database	Oracle SQL, Mongo DB, H2, Git, Postman, Jenkins, JUnit, Mockito

LICENSES AND CERTIFICATIONS

J.P Morgan Chase Software Engineering Simulation - Forage (React, TypeScript)   **Oct 2023**