

# Naga Jahnvi Kommareddy

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## EDUCATION

North Carolina State University, Raleigh, NC

Masters Degree, Computer Science

August 2023 – May 2025

CGPA: 4.0/4.0

**Coursework:** Design and Analysis of Algorithms, Database Management Systems, Cloud Computing, Software Engineering.

CVR College Of Engineering , Hyderabad, India

Bachelor of Technology, Computer Science and Engineering

August 2017 – July 2021

CGPA: 9.89/10.0

**Coursework:** Data Structures, Algorithms, Object Oriented Design, Web Technologies, Operating Systems, Computer Networks.

## SKILLS

**Programming Languages:** C, Java, Python, Javascript

**Databases/ Operating Systems:** MySQL, NoSQL, MongoDB, MariaDB, Oracle, Linux, Windows.

**Web Development:** HTML, CSS, Bootstrap, Tailwind CSS, Javascript, React.js, Node.js, Express.js, XML, JSON, JQuery, REST API, SOAP, AJAX, Redux, PHP, Spring Boot, Spring Framework.

**Cloud :** AWS, DynamoDB, S3, EC2, Lambda, Cloud watch, SQS, SNS, Redshift, Docker, Kubernetes.

**Tools:** Git , GitHub, IntelliJ Idea, Visual Studio Code, Eclipse, MS Excel, Postman, Jenkins, JIRA, CI/CD, Agile, Scrum, Maven.

## WORK EXPERIENCE

### • Software Development Engineer, Amazon

August 2021 – August 2023

- Implemented efficient, unit-tested code in Java and Spring Boot for microservices utilizing **JUnit, Mockito, and EasyMock frameworks**, achieving **90% code coverage**. Involved in the full Software Development Lifecycle by conducting end-to-end functional testing and managed deployments.
- Developed a game-changing Aztec barcode feature, including frontend development in **HTML, CSS, Javascript, React.js**, and backend **API** development in **Java, Spring Framework** resolving legacy issues and **unblocking 5 carrier migrations with a 20% boost in business**.
- Updated Standard Operating Procedures for process improvement and developed master test cases, resulting in a 50% reduction in production failures.
- Implemented a **Python script** for fetching the manifest IDs from **DynamoDB** , **reducing 20% manual effort**.
- Integrated external logistics providers with Amazon's systems by converting business requirements to functional designs and furnished a platform for sellers to ship their products, serving 35% of traffic.

### • Software Development Engineer Intern , Amazon

January 2021 – July 2021

- Leveraged exceptional project management and problem solving skills to pioneer the team's inaugural label migration project, executing a rapid migration, and slashing the project timeline by 30% through concurrent phase work.
- Built **Rest API** using **Java, SpringBoot** for dynamic Configuration retrieval from **S3 bucket**, **reducing hard coded constants by over 500 lines** and enhancing code scalability and maintainability by 20%.
- Debugged and troubleshooted application-level issues utilizing **Linux commands and shell scripting** to analyze application logs and **reduced ticket count by 80%**.

## PROJECTS

### • Database Design and Management | Wolf Parking Management System

Developed ER diagrams and database table schemas for Wolf Parking Management System used by university employees, students, and visitors to manage permits, citations, parking lots, spaces, and zones. Wrote comprehensive SQL queries, constraints, and triggers for all use cases using Java, JDBC, and MariaDB.

Tech Stack: **SQL, Java, JDBC, MariaDB**

### • Full Stack Web Application Development | Seller Performance Management System

Developed a comprehensive e-commerce performance assessment tool using order event data to calculate metrics and created REST API endpoints for real-time insights.

Tech stack: **Apache Kafka Queues, Node.js, MongoDB, HTML, CSS, Javascript, React.js, REST API.**

### • Full Stack Web Application Development | Student Grievance Support System

Designed and implemented a user-friendly portal connecting students with their respective departments, institutions, and university grievance resolution committees. Developed separate logins for students and committee members, streamlining the complaint submission process and ensuring swift action on reported issues.

Tech stack: **HTML, CSS, Javascript, PHP, SQL.**

## CERTIFICATIONS

- Programming in Java**, by Indian Institute of Technology offered through NPTEL.
- Programming, Data Structures and Algorithms using Python**, by Indian Institute of Technology offered through NPTEL
- Full Stack Web Development Mastery Course (MERN stack)**, offered by Udemy
- Service Oriented Architecture**, by University of Alabama offered through Coursera.