

# Srivardhan Vura

svvura@ncsu.edu | (919)637-5469 | [linkedin.com/in/srivardhanvura](https://www.linkedin.com/in/srivardhanvura) | [github.com/srivardhavura](https://github.com/srivardhavura)

## EDUCATION

**North Carolina State University**, Raleigh, NC

May 2025

Master of Science in Computer Science

4.0/4.0

**Coursework:** Design and Analysis Algorithms, Cloud Computing, Database Management Systems, Computer and Network Security, Software Engineering, Computer Networks, Neural Networks and Deep Learning, Automated Learning and Data Analysis

**Manipal Institute of Technology**, Manipal, India

June 2022

Bachelor of Technology in Information Technology

8.73/10

**Coursework:** Operating Systems, Data Structures and Algorithms, Distributed Systems, Cyber security, Object Oriented Programming, Internet of Things, Big Data

## WORK EXPERIENCE

**Intern | Loyalty Juggernaut** | Frisco, TX

Oct 2024 – Present

- Developed and deployed a full-stack application using **Java Spring Boot** on AWS ECS. Managed APIs with OpenAPI/Swagger and AWS API Gateway utilized **AWS Aurora RDS** for scalable database solutions and implemented an automated CI/CD pipeline using **GitHub Actions** to optimize development, testing, and deployment workflows.
- Integrated **Application Performance Monitoring** (APM) with the APIs which helped pinpoint performance bottlenecks, leading to a **20% reduction in API latency**.

**Research Assistant | NC State University** | Raleigh, NC

Feb 2024 – June 2024

- Developed and deployed a full-stack application using **Java Spring Boot** on AWS ECS. Managed APIs with OpenAPI/Swagger and AWS API Gateway utilized **AWS Aurora RDS** for scalable database solutions and implemented an automated CI/CD pipeline using **GitHub Actions** to optimize development, testing, and deployment workflows.
- Integrated **Application Performance Monitoring** (APM) with the APIs which helped pinpoint performance bottlenecks, leading to a **20% reduction in API latency**.

**Data Engineer | Loyalty Juggernaut** | Hyderabad, India

Aug 2022 - June 2023

- Designed and implemented a pipeline to **migrate over 300 million records** from **AWS DynamoDB to PostgreSQL** in under 2 hours using **Apache Airflow and PySpark**, significantly enhancing data migration efficiency and reliability.
- Addressed the inefficiency of static EMR cluster sizes by leading the initiative to deploy an **automated EMR cluster resizing feature**, resulting in substantial **cost reductions of up to 30%** on AWS EMR expenditures.
- Developed **ETL pipelines** around a data lake for seamless data transfer to external systems using **Flask** for APIs, **Airflow** for orchestration, and **AWS Batch** for running Python scripts, improving data integration and accessibility.
- Designed a **Query Executor framework** for cross-team usage, emphasizing **BI and AI applications** enabling controlled Redshift write operations with built-in incremental logic for efficient database writes.

**Software Engineer Intern | Tejas Networks** | Bangalore, India

Jan 2022 - June 2022

- Developed a **machine learning model** designed to significantly reduce false positives in network alarms triggered by discrepancies, enhancing the accuracy of anomaly detection and **minimizing unnecessary alerts by 35%**.
- Developed an **OCR application** to extract key information from legacy configuration files using semantic segmentation, bounding box detection, and Google's Tesseract, enhancing automation in network monitoring and troubleshooting.

## PROJECTS

**Secure Chat Application** | Python, Django, ReactJS, Cryptography

- Developed a secure, end-to-end encrypted chat application for two-person communication using Django for the backend, ReactJS for the frontend and public key encryption for data confidentiality and integrity.

**Load Balancer as a Service** | C++, Docker, Boost.Asio

- Designed and implemented a load balancer in C++ that supports three different algorithms: Round Robin, Least Connections, and IP Hashing and integrated with multi-threading and asynchronous programming techniques to handle high concurrency.

## CERTIFICATIONS & SKILLS

**Certifications:** AWS Certified Developer- Associate **Languages:** Python, Java, SQL, C++

**Web Technologies:** HTML, CSS, JavaScript, NodeJS, ReactJS

**Frameworks/Libraries:** PySpark, Hadoop, **Apache Airflow**, Hibernate, Android, OpenCV

**Databases & Developer Tools:** Postgres, **MySQL**, Redshift, MongoDB, Firebase Database, **CI/CD**, **Docker**, GIT, Postman

**Cloud Technologies:** AWS, GCP