

Srivardhan Vura

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EDUCATION

North Carolina State University, Raleigh, NC May 2025
Master of Science in Computer Science 4.0/4.0

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

Manipal Institute of Technology, India June 2022
Bachelor of Technology in Information Technology 8.73/10

Coursework: Operating Systems, Data Structures and Algorithms, Computer Networks, Cyber security, Object Oriented Programming, Big Data technologies

WORK EXPERIENCE

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

- Created and managed Datadog dashboards to identify long-running and failed jobs. Integrated Application Performance Monitoring (APM) with the APIs, resulting in a 20% reduction in API latency.
- Built a data collection system which tracks key metrics such as clicks and page views to measure user engagement on the platform, which led to creating a data warehouse for analytical purposes.
- Developed customized batch job solutions in Python, tailored to specific client requirements, and executed on AWS Batch. Set up triggers and scheduled the jobs for timely and automated execution.

PROJECTS

Course Registration System | Java, Spring Core, Thymeleaf, Postgres

- Developed and deployed a course registration system using Spring and PostgreSQL for the backend and Thymeleaf for the frontend, successfully tailoring the system to accommodate diverse use cases.
- Incorporated role-based access control to optimize versatility for students and educators.

Secure Chat Application | Java, Spring, ReactJS, Cryptography

- Developed a secure, end-to-end encrypted chat application for two-person communication using Spring for the backend and ReactJS for the frontend.
- Implemented public key encryption to ensure data confidentiality and integrity throughout the communication process, with messages deleted upon chat termination or browser closure to further enhance security.

SKILLS

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

CERTIFICATIONS

- AWS Certified Developer- Associate