

# Lahari Vuppalapati

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## EDUCATION

### University of Maryland, Baltimore County

Aug 2024 – May 2026

*Master of Science in Computer Science*

Baltimore, MD

- **Coursework:** Machine Learning, Advanced Computer Architecture, Introduction to Data Science

### SASTRA University

Oct 2020 – May 2024

*Bachelor of Technology (Honors) in Computer Science and Engineering*

Thanjavur, IN

- **Coursework:** Object Oriented Programming, Operating Systems, Computer Networks, Data Structures and Algorithms, Theory of Computation, Cryptography and Network Security, Data Warehousing and Data Mining, Cloud Computing, Big Data Analytics, Software Engineering Practices

## SKILLS

**Languages :** Java, Python, HTML/CSS, SQL

**Technologies & Tools :** ReactJS, Node.js, dbt, Azure Data Factory , Git, Docker, Machine Learning, snowflake, Azure Data Studio, SSMS, Power BI

## EXPERIENCE

### JMAN Group

Jan 2024 – May 2024

*Software Engineering Intern*

Chennai, IN

- Designed and implemented full-stack applications using **React** and **Node.js** for user interfaces and server-side logic, and **Express.js** for scalable APIs, enhancing end-to-end functionality and performance.
- Executed Extract, Load, and Transform (ELT) operations on data generated from applications using **Azure Data Factory (ADF)**, **dbt (data build tool)**, and **Snowflake** optimizing data pipelines and ensuring accurate and efficient data processing.
- Acquired hands-on experience in machine learning, proficient in using libraries such as **pandas**, **NumPy**, and **Matplotlib** to analyze data, build predictive models, and visualize results, enhancing data-driven decision-making and insights.

### Intellect Design Arena

Jun 2023 – July 2023

*Project Intern*

Chennai, IN

- Acquired knowledge on designing solutions using **cloud technologies**, including best practices for leveraging cloud resources.
- Developed a robust understanding of cloud architecture, including services such as **EC2**, **S3**, **IAM**, **RDS**, and **VPC**
- Conducted an internal knowledge share on effective use of cloud technologies for building **scalable solutions**. The session included practical examples and case studies, contributing to a better grasp of cloud scalability concepts within the team.

### SASTRA University

Dec 2022 – May 2023

*Public Relations Coordinator*

Thanjavur, IN

- Played a key role in organizing and promoting both technical and non-technical events, enhancing student engagement across the university.
- Maintained and tracked event schedules, ensuring all timelines and deadlines were met. Developed clear communication channels with event organizers, participants, and other stakeholders.
- Collaborated with the Computer Science and Electrical Engineering departments to identify technical workshop topics, ensuring alignment with current industry trends and student interests.

## PROJECTS

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### Success of Engineering Students: Academic and Demographic Cluster Analysis (2023)

- Applied machine learning algorithms to analyze and predict student academic performance.
- Focused on accuracy and model optimization to derive meaningful insights.
- Supported educational improvements by enhancing understanding of academic achievement trends.

### E-Commerce Application (2024)

- Designed and implemented the front-end using **React** and **Bootstrap** for styling.
- Developed **RESTful APIs** for data exchange between the front-end and back-end.
- Managed user data, product listings, and order information using a **MongoDB** relational database.
- Analyzed and derived insights from the data using **ETL tools** to make data-driven decisions.

### Power BI Usage Metrics Tool (POC, JMAN Group)

- Developed a Python package using **Power BI** software to retrieve usage metrics.
- Integrated **Azure portal** and Power BI workspace credentials for secure and efficient data retrieval.
- Extracted and analyzed usage data to provide actionable insights on Power BI activity.
- Delivered this proof-of-concept (POC) project as part of a professional assignment at **JMAN Group**.

## CERTIFICATIONS

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AWS Cloud Technical Essentials - **Coursera**

Introduction to Industry 4.0 and Industrial Internet of Things - **NPTEL**

Privacy and Security in Online Social Media - **NPTEL**

Cyber Security and Privacy - **NPTEL**

Environmental Studies - **SWAYAM**

dbt Fundamentals - **dbt**