

Umadevi Thulluru

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EDUCATION

Eastern Michigan University (GPA: 3.88/4)

Master of Science in Computer Science

Aug 2023 – Apr 2025

Ypsilanti, MI

Sreenidhi Institute of Science and Technology (GPA: 3.87/4)

Bachelor of Technology in Computer Science and Engineering

Aug 2019 – May 2023

Hyderabad, Telangana

SKILLS

Languages & Frameworks: Python, Java, C++, JavaScript, HTML, CSS, PHP, SQL, JavaFX, Java Swing

Tools: Microsoft Power Platform, AWS, GCP, dbt, Kestra, Kafka, Spark, Terraform, Docker

EXPERIENCE

KBTS Technologies

Data Engineer Intern

Jan 2025 – Apr 2025

Ypsilanti, Michigan

- Built and automated scalable, end-to-end data pipelines on **Google Cloud Platform (GCP)** using **Kestra**, **dbt**, and **Apache Kafka** for both real-time and batch data processing.
- Designed and deployed **analytics-ready data models** and ETL workflows; visualized insights through dynamic dashboards in **Looker Studio** to support data-driven decision-making.
- Provisioned and managed cloud infrastructure with **Terraform**, and deployed containerized services using **Docker**, improving reliability, consistency, and scalability.

Eastern Michigan University

Graduate Assistant

Aug 2024 – Apr 2025

Ypsilanti, Michigan

- Automated administrative workflows and academic scheduling using Python, SQL, and Google Apps Script, improving operational efficiency by ~50%.
- Developed and maintained internal web applications and dashboards using Flask and front-end technologies, enhancing the usability of academic tools and improving access to information.
- Developed automation scripts for scheduling and desk operations, reducing conflicts and overhead; trained a team in IT support and troubleshooting, ensuring smooth operations.

Applied Information Sciences (AIS)

Associate Consultant

Mar 2023 – Jun 2023

Hyderabad, Telangana

- Engineered a Full-Stack Employee Management System using MySQL and JDBC, enhancing data access and management, and designed a responsive UI with Java Swing and JavaFX to improve user experience and reduce support queries.
- Leveraged Microsoft Power Platform (Power Apps, Power Automate, Power BI) to automate internal processes, streamline employee onboarding, and create automated workflows, significantly reducing manual tasks and cycle times.
- Developed Real-Time Data Integration by connecting Power Platform tools to SQL databases, enabling seamless updates across apps and reports, while contributing to an Agile environment through active sprint participation and collaborative development.

AICTE AWS Academy Cloud Architecting

Cloud Engineer Intern

Sep 2021 – Dec 2021

Hyderabad, Telangana

- Gaining hands-on experience with core services like EC2, S3, RDS, IAM, Lambda, and CloudFormation while designing and deploying scalable, secure cloud-based solutions and microservices.
- Implemented Infrastructure as Code (IaC) using CloudFormation templates, explored DevOps practices, cost optimization, and monitoring with AWS CloudWatch.

PROJECTS

- Real-Time Sentiment Analysis (*Apache Spark, Kafka, MongoDB, Django*):** Developed a scalable Django app for real-time sentiment analysis using Spark for processing, Kafka for streaming, and MongoDB for storage.
- Alternative Medicine Recommendation System (*Python, NumPy, Pandas, Cosine Similarity*):** Created a recommendation engine leveraging cosine similarity to suggest alternative medicines based on drug details.
- Facial Recognition (*Python, OpenCV*):** Developed a facial recognition system using Python and OpenCV, integrating machine learning for precise identity verification.
- E-commerce Platform (*Node.js, PHP, AWS*):** Built a feature-rich e-commerce platform with search functionality, user authentication, and **Stripe** integration for secure payment processing.