

Gowtham Ram M

Software Engineer 1

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PROFESSIONAL EXPERIENCE

Software Engineer -1

2022 – present

LTIMindtree

- Contributed to the development of **SAP Concur** and **ULTIMA** projects, resulting in a **20% improvement in system performance**.
- **Mentored junior developers** enhancing development efficiency and deployment reliability.
- Built and deployed a **Vue-based frontend** for the **ULTIMAWORKS** application, improving user experience and responsiveness.
- Managed **Azure infrastructure** and orchestrated deployments, leveraging **CDN** and **load balancers** to scale services to **100,000+ users**.
- Enhanced **API responsiveness** through performance tuning and efficient data handling techniques.
- Developed and integrated **custom payment validation rules**, improving transaction accuracy and compliance.

Sql Developer Intern

01/2021 – 04/2021

Davi Engineering

- Updated and maintained the **ERP web application**, enhancing functionality and user experience.
- Developed and scheduled **SQL jobs** to automate **employee record management**, reducing manual effort.
- Migrated and optimized the **backend system** for compatibility with **PostgreSQL**.
- Integrated multiple **third-party APIs**, streamlining data exchange and extending system capabilities.

ML Intern

Zspaze

- Wrote a Simple website to Display Traffic density using GCP AutoML.
- Website provided Chennai Smart city Project with information for Traffic Bottlenecks

PROJECTS

Defect Detection in Assembly Line

Link-<https://defectdetection-a6n4ezkedzdbkrkzjaf2t2.streamlit.app/>

- Built a **real-time analytics dashboard** using **Flask** for industrial defect detection.
- Integrated **MVTEC dataset** to identify defects in assembly line components.
- Employed **UNet, Autoencoder**, and **ResNet50 + Isolation Forest** for deep learning and anomaly detection.

Quick Commerce Inventory Optimisation

Link -<https://piz9a8wx5f5xwdekyqrcmr.streamlit.app>

- Developed an **inventory optimization tool** for **Quick commerce websites** using **Flask** and **Python**.
- Integrated **ML models** for **Inventory recommendations**, **Spoilage detection**, and **Market basket analysis**.
- Simulated **Real-time transaction streams** to enhance user experience and recommendation accuracy.

AI Recruitment Assistant (Hack the Future Submission)

- Built a web application leveraging **Gemma 3** to extract key information from resumes and match candidates to relevant job openings.
- Developed backend using **Spring Boot** and integrated **Java Mail Service** to automate interview call notifications.
- Designed a responsive **Bootstrap-based UI**, tailored for seamless use by **HR personnel**.

India Cultural Heritage Explorer||YourStory Hero Challenge 2025

Link- <https://india-cultural-heritage-explorers-qmdqz8gttr7eird8mjdfif.streamlit.app/>

- Developed **India Cultural Heritage Explorer**, a data-driven platform using **Flask**, **Streamlit**, and **Snowflake** to promote cultural tourism.
- Recommends tourist locations and showcases **endangered art forms** and **lesser-known heritage sites** through insightful analytics.
- Aims to address **unsustainable tourism** and **digital gaps** by enhancing accessibility and awareness of India's cultural treasures.

EDUCATION

MTech in Data Engineering

Indian Institute Of Technology Jodhpur

Bachelor In Engineering in Computer Science Engineering

SRM Easwari Engineering College

SKILLS

Programming Languages : Python, Java, C

Web Frameworks: Spring Boot, Flask, FastAPI

Frontend Technologies: HTML, CSS, Vue.js

Cloud Platforms: Google Cloud Platform (GCP)

Databases: PostgreSQL, SQLite

DevOps & Tools: Docker, REST APIs, MS Office Suite

Testing: JUnit, Mockito

PROFESSIONAL CERTIFICATES

Google Generative AI Leader | Oracle APEX Cloud Developer Certified Professional |

Google Professional Cloud Developer Certified | Google Professional Data Engineer Certified