Vijesh Shetty

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Education

RV College of Engineering Bangalore
B.E in Information Science and Engineering | GPA: 9.48 *2023-2027*

Projects

CompileX https://github.com/VijeshVS/CompileX
ReactJS, Express, Redis, RabbitMQ, Docker, Typescript

- CompileX is a **scalable code execution platform** designed for handling high volumes of concurrent submissions
- Built **code-judge** to evaluate code submissions against various test cases, considering time and memory limits, with the worker **containerized using Docker** for secure execution
- Used **RabbitMQ queues** to buffer code submissions, which are processed by the worker and **stored in Redis**
- The platform **polls** the backend after submission to retrieve execution results

EatMyUrl https://eurl.dev
NextJS, Express, Kafka, Postgres, Redis

- EatMyURL is a **link shortener** that lets users create **custom shortlinks and QR codes**
- It offers **in-depth insights** into link engagement, providing **detailed metrics** on devices, operating systems, browsers, and geographic regions where the links are accessed.
- Used **Kafka** for high-throughput real-time ingestion of analytics into the database.
- Implemented **Redis** to cache recently accessed links, enhancing performance and reducing database load.

Coding Profiles

LeetCode: Solved **400+** DSA Problems | **Max Rating**: 1621

Achievements

Winner - GenAI Hackathon (ACM RVCE and Accelerate RVCE)
Developed an **AI-assisted diagnosis platform** that leverages **large language models (LLMs)** to help doctors efficiently assess a high volume of patients.
Tech Stack: Next.js, Groq API (LLaMA 3B)

Top 7 (Out of 1500+ Registrations, 250 Shortlisted Teams) - Great Bangalore Hackathon 2024
Developed solutions for Namma Yatri to address **peak-hour demand** and **ride denial issues**. Trained an **ML model** to predict taxi demand at specific locations. Proposed several **innovative solutions** to mitigate ride denials and incorporated **gamification elements** to enhance customer and driver engagement, which were **appreciated by judges and mentors.**
Tech Stack: Node.js, Express, MongoDB, Google Distance Matrix API, React, Scikit-Learn, Pandas

Technical Skills

Backend: NodeJS, Express, Websockets, Flask (Python)
Frontend: ReactJS, NextJS, Tailwind
Databases: MongoDB, Postgres, Redis
Languages: C++, Typescript
Miscellaneous: Docker, Git
Tools: RabbitMQ