Vijesh Shetty

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Github | Linkedin | Portfolio

Education

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

Projects

CompileX Feb. 2025
Node.js, RabbitMQ, Redis, Docker *GitHub Repo*

- CompileX is a **secure, scalable online code execution platform** that supports multiple programming languages.
- Designed a modular **Code-Judge system** that enforces time/memory limits and executes code against test cases in isolated environments.
- Used **RabbitMQ** to decouple execution logic, allowing code submissions to be queued and processed asynchronously by distributed workers.
- Implemented **Redis** for fast retrieval of execution results using unique commit IDs, enabling responsive polling from the frontend.
- Built a RESTful backend to handle code submission, queueing, and polling, and a frontend interface for users to test code seamlessly.

EatMyUrl Mar. 2024 – Jun. 2024
NextJS, Express, Kafka, Postgres, Redis *Live Demo*

- 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 **450+** DSA Problems | **Max Rating**: 1701
Codeforces: **Pupil** | **Max Rating**: 1200

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.
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