

# VIJESH SHETTY

Bangalore, IN

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## Education

### RV College of Engineering

B.E in Information Science and Engineering | CGPA: 9.57

Aug 2023 - Aug 2027

Bangalore, Karnataka

## Projects

### CompileX | Node.js, RabbitMQ, Redis, Docker

[Github Repo](#)

- Developed a secure, scalable online code execution engine supporting multiple programming languages.
- Built a modular Code-Judge system with Docker-based sandboxing and strict time/memory limits.
- Integrated RabbitMQ for distributed asynchronous task processing, decoupling execution logic.
- Used Redis to cache execution results via unique commit IDs, enabling real-time frontend polling.

### EatMyUrl | 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.

### MAC | Java, Android Studio, Firebase Realtime DB

[Github Repo](#)

- Developed a native Android application to monitor water quality data in real time using graphs and a user-friendly UI.
- Used ESP32 to stream water sensor data to Firebase Realtime DB over Wi-Fi using Firebase ESP32 library.
- Integrated Firebase Realtime Database to sync sensor readings to the cloud with minimal latency.
- Implemented a background thread in the app to continuously fetch updates from Firebase and update the UI dynamically.

## Technical Skills

**Backend:** Node.js, Express.js, Flask, WebSockets, REST APIs

**Frontend:** React.js, Next.js, Tailwind CSS

**Database:** MongoDB, PostgreSQL, Redis

**Miscellaneous:** Docker, Git, RabbitMQ

**Languages:** C++, TypeScript, Python

## Achievements

**Winner** — GenAI Hackathon (ACM RVCE & Accelerate RVCE): Developed an AI-assisted diagnostic platform using large language models (LLMs) to streamline patient triaging. *Tech Stack: Next.js, Groq API (LLAMA 3B)*

**Top 7 (Out of 250+ Shortlisted Teams)** — Great Bangalore Hackathon 2025: 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, NumPy*

**Top 3** — RoTech Hackathon (BMS College of Engineering), April 2025: Built *Smart Match*, an AI-powered hiring platform that allows HRs to filter candidates using natural language prompts powered by LLMs. Introduced a reward mechanism where HRs earn incentives for insightful reviews, which candidates could view for feedback and self-improvement. LLMs also provided personalized profile enhancement tips to increase hiring chances. *Tech Stack: LLM APIs, React, Node.js*

## Leadership & Extracurricular

### Coding Club RVCE

Dec 2024 – Present

Member

RV College of Engineering

- Contributed to the Development vertical by organizing and conducting a 7-week Web Development Bootcamp.
- Facilitated learning through hands-on sessions covering frontend, backend, and database technologies.

## Coding Profiles

**LeetCode:** leetcode.com/u/vijeshvs — 650+ problems solved, Max Rating: **1847** (Knight)

**Codeforces:** codeforces.com/profile/imjivesh — Max Rating: **1200** (Pupil)