VAIBHAV SIJARIA

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EDUCATION

Vellore Institute of Technology, Vellore   **August 2023 – Present**
Bachelor's of Technology (B.Tech) in Computer Science   *CGPA 8.59*

SKILLS

Programming Languages: Python, Golang, Rust, TypeScript, SQL, Java, C, C++, Zig
Frameworks & Libraries: NumPy, PyTorch, Flask, Django, Nest.js, Prisma, Drizzle
APIs & Protocols: REST, GraphQL, tRPC, gRPC, WebSockets
Databases: PostgreSQL, MongoDB, Redis, DuckDB
Tools & Technologies: Git, Docker, Linux, GitHub Actions, MS Office

EXPERIENCE

Xlancr Infotech   **September 2024 – February 2025**
Software Engineer Intern   *Vellore, Tamil Nadu*

- Architected scalable, type-safe backend for a high-throughput website and analytics dashboard using **TypeScript**, **NestJS**, and **Drizzle**, capable of successfully handling loads exceeding **5,000 RPM**.
- Reduced API costs and data retrieval latency by ∼**50%** for a Python backend by engineering a multi-layer caching solution with **Redis** and **FastAPI**; implemented **CI/CD pipeline** via **GitHub Actions** to enforce **70%** test coverage.
- Refactored the codebase to enforce **Separation of Concerns**, leveraging **NestJS**'s **Dependency Injection** patterns to improve scalability, reduce code complexity, and simplify future maintenance.

PROJECTS

Competitive Coding Platform | *Real-time code submission, evaluation, and leaderboard* | GitHub   **October 2024**

- Achieved **100% uptime** while serving **600+ users** in a live competition. Implemented **Redis** caching for the leaderboard and contest questions, significantly reducing direct database queries.
- Architected a secure and scalable code evaluation pipeline by integrating **Judge0** for sandboxed execution and **Asyncq** for asynchronous job queuing, ensuring fast, non-blocking submission processing.
- **Tech Stack:** Golang, Docker, PostgreSQL, Redis, Asyncq, SQLC, Judge0, Gin framework

DevSoc'25 Hackathon portal | *Team management, project submission, and evaluation system* | GitHub   **February 2025**

- Architected a high-performance **Golang** backend to serve **800+ participants**, implementing a concurrency-safe API key rotator to to sustain throughput despite external service rate limits.
- Improved email notification speed by ∼**60%** by optimizing **SMTP connection pooling**. Deployed the service as a containerized application on **DigitalOcean**, managed by **Nginx** for load balancing.
- **Tech Stack:** Golang, Docker, Nginx, PostgreSQL, Redis, SQLC, Echo framework, SMTP

Tele Tune Bot | *Spotify integration within Telegram chat* | GitHub   **January 2024**

- Engineered a **Python** bot to create a shared music experience on Telegram, syncing Spotify playback as a dynamic status using the **Pillow** library and enabling real-time controls (play, pause, skip) via the **Telegram API**.
- Ensured high availability (**24/7 uptime**) by deploying the application in a **Docker** container on a **Linux VM**.
- Utilized **MongoDB** for **persistent storage** of user data and authentication tokens for seamless session across reboots.
- **Tech Stack:** Python, Docker, MongoDB, Telegram API, Pyrogram, Pillow library

LEADERSHIP & EXTRACURRICULAR

Event Sub-Coordinator, CookOff 9.0 - Gravitas 2024   **September 2024**

- Led a 5-member backend team in developing the submission portal for **Cook Off 9.0**, which processed **15,000+ evaluations** with **zero downtime**, a peak throughput of **200+ submissions/min**, and an average verdict time of <**10s**.

1st Runner up, ForkThis - Gravitas 2023   **September 2023**

- Contributed to open-source projects by debugging bugs and implementing features across multiple repositories. Secured **2nd place out of 300+ participants** with **25 merged PRs**, utilized **Python, JavaScript, Selenium,** and **Node.js**.