

VEDANT MATANHELIA

SOFTWARE ENGINEER

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EDUCATION

B.Tech Computer Science | Vellore Institute of Technology
CGPA: 8.87

September 2022 - August 2026

12th CBSE | Rajghat Besant School
Percentage: 89.0%

Mar 2021 - Aug 2022

10th CBSE | Rajghat Besant School
Percentage: 96.0%

Jul 2019 - Jul 2020

TECHNICAL SKILLS

- **Programming:** Golang, Javascript, Rust, SQL, NoSQL, Lua, Python, C++, C, Zig
- **Frameworks and Libraries:** Go Fiber, Echo, Express JS, Nest JS, Next JS, Typescript, OpenGL, Vulkan, Qt, Bevy
- **Tools:** Github Actions, Ansible, Docker, Nginx, Node.JS, Bun

PROFESSIONAL EXPERIENCE

SDE Intern | Fampay

July 2024 - Present

- Utilized **Python and Golang** to support the team in achieving project goals.
- Found **Innovative solutions** to problems and optimized **query times**.
- Worked with a **microservice architecture** and improved communication between services

SDE Intern | Shortsqueueze

Nov 2023 - July 2024

- **Integrate Kafka pub-sub** to ensure smooth operation of the payments and other services.
- **Optimize ScyllaDB tables and their queries** to ensure **sub 100ms operation of all APIs**
- **Integrated monitoring tools** like **Grafana and Prometheus**.
- Orchestrated the integration of **gRPC** into existing service frameworks, which **streamlined communication between services** and resulted in a **50% decrease in deployment time** for updates and new features across platforms.

PROJECTS

DEVSOC'24 Backend

February 2024 - March 2024

Codechef VIT Student Chapter

[Project Link](#)

- Created the backend of a hackathon portal to manage the submissions of **over 500** participants.
- **Used golang and raw SQL** to manage the large amount of requests.
- **Deployed a microservices architecture** on Digital Ocean, using **Nginx to balance load across 4 instances**, which supported a **25% growth in traffic** without compromising system performance.

BOLT-2.0 Backend

November 2023 - February 2024

Vellore Institute of Technology

[Project Link](#)

- Created the backend of a hackathon portal to manage the submissions of **over 500** participants.
- Used golang to manage the large amount of requests.

CookOff-8.0 Backend

July 2023 - September 2023

Codechef VIT Student Chapter

[Project Link](#)

- Engineered a Node + Mongo project to manage the flow of a competitive programming portal.
- The website had **600 concurrent users** solving questions.

- Worked with external APIs such as Judge0 to help manage the execution and matching of code against specific test cases.

Library Management System

February 2022 - March 2022

Personal

[Project Link](#)

- A Python, Qt and SQL based GUI for managing the working of a library and making record keeping easier.

POSITIONS OF RESPONSIBILITY

Board Member

Mar 2023 - Present

Codechef VIT Student Chapter

- Manage and contribute to multiple projects including the CookOff 8.0, and the CodeChefVIT News letter.
- Create innovative questions for the Cookoff 8.0 Competitive programming competition
- Organize South Asia's Largest Student Run Hackathon: DEVSOC

Organizing Committee

November 2023 - February 2024

International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE'24)

- Manage and contribute to the development of the Backend of the landing pages and portals of the Research Paper Conference, BOLT 2.0 Hackathon and TechNext, a Technical Exhibition.
- Help organize and ensure the smooth operation of the BOLT 2.0 Hackathon