

# DHRUV SHAH

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## SUMMARY

Passionate backend developer skilled in Python, Golang, and cloud technologies, dedicated to creating efficient and scalable applications and solving complex problems.

## EDUCATION

### B.Tech, Computer Science Engineering

Vellore Institute of Technology, Vellore

Sept 2021 - Present

8.57 CGPA

### Higher Secondary School

Delhi Public School North, Bangalore

June 2019 - May 2021

96.6%

## TECHNICAL SKILLS

**Programming languages:** Python, Go, SQL, TypeScript, JavaScript, C++, C, Java, HTML, CSS,

**Frameworks and Libraries:** Django, Django rest framework, FastAPI, Fiber, Gin, Echo, React, Numpy, Pandas

**Databases:** PostgreSQL, MySQL, SQLite, MongoDB

**Cloud Providers:** Amazon Web Services, Azure, Digital Ocean, Oracle Cloud, Google Cloud Platform

**Tools and Services:** Git, Github, Docker, Linux, Google APIs, OpenAI API, Firebase

## EXPERIENCE

### Engineering Intern

BalkanID

April 2023 – Present

Remote, Texas

- Developed web application features including rules engine, IAM risk analyzer, and access campaigns using **GraphQL, Golang, Typescript** and **React**.
- Created an **Argo workflow** for applying rules, significantly reducing resource consumption and system errors.
- Led the development of **REST APIs** for autonomous app operations, integrating with customer applications and Balkan's AI models using **Golang, Kafka, GRPC**, and **S3** in a containerized micro-service architecture.
- Built entitlement extractors for various applications such as Datadog, Sumologic, Jenkins using **Golang**, and integrated them into the main app and CLI.
- Worked with **CI/CD pipelines** using **GitHub workflows, AWS (ECR, S3)**, and **ArgoCD**.
- Provided knowledge transfer, conducted code reviews, and offered guidance to new team members.

### Backend Development Intern

Fischer Jordan

Sept 2022 – Sept 2023

Remote, New York

- Designed and built an internal **Knowledge Management dashboard** using **Django Rest Framework, PostgreSQL**, and **AWS (EC2, S3)** in a **Docker-based containerized environment**.
- Implemented **Celery** for periodic and asynchronous tasks, improving system efficiency.
- Developed a new, more efficient algorithm, reducing time and code complexity of the main API algorithm.
- Integrated third-party APIs including **Google APIs** (Identity Services, Drive, Docs) and **OpenAI API**.
- Added features such as **version control, review approval system, comments**, and **multi-level search**.
- Built an automated **CI/CD pipeline** for multi-instance application deployment.
- Collaborated with the frontend team and conducted regular meetings with analysts to gather feedback and address user requests.

### Lead Developer

Freelance

May 2024 – June 2024

- Led development of a **Hospital Management System** with role-based access for admins, doctors, nurses, and primary contacts.

- Built **backend APIs** and customized **admin panel** using **Django**, **Django Rest Framework**, and **PostgreSQL**.
- Developed a user-friendly web admin panel with **Django templates**, **HTML**, **CSS**, and **JavaScript**.
- Implemented **JWT-based authentication** and deployed on **GCP Compute Engine VMs**.

## PROJECTS

**Vitty** Nov 2022 - Present  Github

VIT timetable app with social features and widgets.

- Developed the backend API in **Golang** for Vitty, a cross-platform timetable app, with push notifications reminding users to attend classes, achieving **40,000+ active users**.
- Built **v2** with additional functionalities such as OAuth2 authentication, authorization, and the ability to add friends and view their timetables, along with a CLI for admin management, deployed on **Oracle Cloud VM**.
- **Tech stack**: Go, Fiber, Gorm, PostgreSQL.
- **Tools used**: Docker, Git, GitHub, Firebase, Oracle Cloud VM.

**Tizori** April 2024 - April 2024

A self-hosted credentials manager with role-based access control (RBAC) and a CLI interface for clients.  Github

- **Backend**: Developed using **Go** with the **Fiber** framework and **Gorm** ORM, featuring JWT authentication, RBAC, AES-256 encryption, and a web API for managing users, roles, applications, and credentials. Deployed with **Docker**.
- **Admin Panel**: Built using **Django** with **Jazzmin** for user management, ensuring a seamless admin experience.
- **CLI Interface**: Created using **Python 3.12**, **Poetry**, and **Typer**, enabling account management, role and permission management, application and credential management through the command line.
- Key features include **multi-tenant support**, **AES-256 encryption**, **JWT authentication**, and self-hosting capabilities.

**Mou** Nov 2022 - Jan 2023

Full stack API and website for content management and personal blog.  Github

- Developed in **Go** and **React**, using **Google Identity Services API** for authentication, **JWT** for authorization, and **Google Drive API** for backing up and storing static data. The platform allows users to comment and reply to blogs, and is deployed on **AWS EC2** and **Netlify**.
- **Tech stack**: Go, Fiber, Gorm, PostgreSQL, React, TypeScript.
- **Tools used**: Git, GitHub, Docker, AWS, Google APIs, Netlify.

**Chitros** July 2022 - Aug 2022

Social media backend API mimicking Instagram's functionalities.  Github

- Built functionalities to **view feed**, **post pictures**, **search**, **follow friends**, **unfollow**, **like**, and **comment** using **FastAPI**.
- **Tech stack**: Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic.
- **Tools used**: Git, GitHub, Docker, Heroku, Railway.

## LEADERSHIP

**Google Developers Student Clubs** Mar 2022 – Present

Chairperson

- Managed a team of 80 members, leading the development of the **Student Welfare Portal** and **Riviera'24**, VIT's Annual International Sports and Cultural Carnival.
- Organized **WomenTechies'24**, overseeing sponsorships, marketing, technical preparations, and event operations.
- Conducted tech workshops on **RestAPIs**, **Git**, and **GitHub**, and mentored various tech projects, promoting women participation in tech through events like **WomenTechies'22 and '23**.

## ACHIEVEMENTS

**Sponsored Track Winner in Devspace '22** - Won first prize in the symbl.ai sponsored track for our voice-assisted AI desktop terminal application among 1000+ participants

**Hands-on Tech Session on REST APIs** - Conducted a tech session on REST APIs for college students

**Tech Session on Git and GitHub** - Conducted a tech session on Git and GitHub for college students