

# Vedant Daterao

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## Education

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**Symbiosis Skills and Professional University**  
B.Tech – Computer Science (Cyber Security)

2022 - 2026  
CGPA - 8.3

## Experience

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**Intern, NextGen Digitech**

Jun – Aug 2025

- Deployed and managed applications on AWS EC2 instances using Nginx as a reverse proxy
- Used FastAPI to develop RESTful backend APIs that handle inventory data processing and business logic, and Vue.js to build a dynamic and responsive frontend

**Intern, CRES India**

Jun – Aug 2024

- Built a web scraper to collect parts data across all models from 26 car manufacturers, then built a search API over that dataset with pagination and filters
- Wrote tests using pytest to validate APIs, conducted load and performance testing

## Projects

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**eclipse**

[github](#)

- Built a hybrid post-quantum encrypted messaging system in C
- Secured the communication using a hybrid Kyber + X25519 key exchange via liboqs, libsodium, and OpenSSL, protecting against both classical and quantum attacks

**nestor**

[github](#)

- Built a CLI tool that indexes any Git repository and enables natural language querying over source code using a local LLM with RAG.
- Implemented hybrid BM25 + semantic retrieval pipeline with Tree-sitter AST parsing for language-aware chunking, storing dense vector embeddings in ChromaDB.

**torgo**

[github](#)

- Built a BitTorrent client from scratch in Go with no external dependencies
- Used goroutine-based worker pools to handle 50+ concurrent peers simultaneously, keeping downloads fast and efficient without blocking operations

**personal-finance-app**

[github](#)

- Backend with FastAPI, SQLAlchemy, relational models, JWT auth, background workers.
- Integrated SETU AA APIs and built ingestion + reconciliation pipelines. Decoupled frontend with analytics views.

## Technical Skills

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<i>Languages</i>	C, Go, Python, Typescript, Bash
<i>Frameworks &amp; Tools</i>	FastAPI, Vue.js, Make, Nix, Nginx, gdb, Git
<i>Databases</i>	SQLite, PostgreSQL, Redis
<i>Cloud &amp; DevOps</i>	AWS, Docker, Kubernetes, CI/CD pipelines (GitHub Actions)

## Extracurriculars

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- Contributed to open-source projects - [Ubuntu Snapcraft](#), [Xen Project](#)
- IIT Bombay CTF 2023, 12th rank from 100+ Teams, top 10% team on [CTFtime](#)