

Hrithik Sham D H

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TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript, SQL

Frameworks: FastAPI, Node.js (Express), React.js, React Native (Expo)

Databases: PostgreSQL, MongoDB, Redis

Tools & Cloud: Docker, AWS, Nginx, Git/GitHub, Postman, Linux

Core Concepts: System Design, REST APIs, JWT Auth, Microservices, Caching, Indexing, Asynchronous Programming

WORK EXPERIENCE

Full Stack Developer Intern

Apr 2025 – June 2025

Anjo Aqua World

Remote

- Designed **scalable REST APIs** to handle payroll operations for 50+ staff, utilizing **JWT** for secure sessions and validating inputs to **reduce data entry errors by ~30%**.
- Optimized the administrative workflow by building an interactive **React dashboard**, cutting down manual reporting efforts and enabling real-time expense tracking.

Backend Developer Intern

Aug 2025 – Oct 2025

InnoByte Services

Remote

- Built a **scalable REST API** (15+ endpoints) for task management with **JWT authentication** and role-based access control (**RBAC**).
- Improved performance by 40% using **indexing and pagination**, and **handled 500+ concurrent requests** via **Nginx** reverse-proxy load balancing.

EDUCATION

Vellore Institute of Technology, Chennai Campus, TN

September 2022 – Present

Bachelors of Technology Computer Science spl in AI & Robotics

CGPA: 7.63

PROJECTS

Autonomous LLM Agent | *React, FastAPI, MongoDB*

July 2025 – PRESENT

- Built an **autonomous API assistant** using **RAG** and **LangChain** to interpret documentation and generate grounded, executable code in real time, **reducing API adoption effort by ~40%**.
- **Optimized reasoning pipelines with caching**, maintaining **sub-2s latency** and stable performance under high-concurrency stress tests.

URL Shortener & Analytics Platform | *Node.js, PostgreSQL, Prisma*

Nov 2025 – Jan 2026

- **Built a low-latency URL shortener** with **Redis caching**, serving **~70% of requests from memory** and sustaining sub-50ms responses via **token-bucket rate limiting**.

Yournote App | *React Native, FastAPI, MongoDB*

Jan 2025 – June 2025

- Built a secure, scalable mobile app with **JWT auth**, **Redis state management**, encrypted storage, and 10k+ online-synced notes.
- Implemented FastAPI microservices with **optimized MongoDB schemas**, **reducing API fetches by ~35%** via caching and request optimization.

ADDITIONAL INFORMATION

Languages: Tamil, English

Certifications: Microsoft Azure Data Fundamentals (DP-900) & MongoDB Certified Developer

Activities: *International Committee Member* – Organized 4+ international events and built networks with global clients to strengthen cross-cultural collaboration.