Karthik S

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Summary

Final-year Computer Science student focused on backend development. Comfortable building and deploying full-stack backend applications independently – API design, database modeling, authentication, and containerized deployment – with growing depth in system design, caching, and distributed systems.

Education

University College Of Engineering Kariavattom (University of Kerala) Thiruvananthapuram, India
Bachelor of Technology in Computer Science; CGPA: 7.71 (through 5th semester) *Sep 2023 – Sep 2027*

Govt Model Boys HSS Thycaud Thiruvananthapuram, India
High School; Percentage: 98.91% *Graduated 2023*

Experience

Technical Head Aug. 2025 – Present
Unstop Igniters UCEK *Thiruvananthapuram, India*

- Lead developer for Impulse, an AI-powered campus placement suite; rebuilt the frontend into a production-ready interface and hardened the existing backend for security
- Integrated the Google Gemini API to power AI-driven resume review and mock interview scoring features
- Own containerization, deployment, custom-domain setup, and ongoing maintenance for the live application
- Lead technical development for the Unstop Igniters UCEK club portfolio site, coordinating contributors and writing code directly

Creative Head Aug. 2025 – Present
Unstop Igniters UCEK *Thiruvananthapuram, India*

- Produced event posters, banners, and promotional design assets while directing the visual identity of club initiatives

Projects

LinkYo | *FastAPI, PostgreSQL, Redis, Docker, JWT*

- Built and deployed a URL shortener with JWT authentication, Redis-backed caching, and rate limiting (slowapi), containerized with Docker
- Designed the schema, endpoints, and auth flow independently; currently extending with an AI-powered analytics feature

Impulse – Campus Placement Suite | *Python, FastAPI, Gemini API, PostgreSQL*

- Took over a partially working AI-generated prototype and turned it into a maintained, deployed application
- Rebuilt the frontend, resolved backend security issues, and integrated the Gemini API for AI resume review and mock interview scoring

Certvify | *Python, FastAPI, PostgreSQL, RSA Cryptography*

- Built a certificate verification system using RSA digital signatures and QR codes to detect tampering after issuance
- Implemented the backend, database design, cryptographic signing/verification logic, and deployment solo as Backend Lead

Technical Skills

Languages: Python, C, JavaScript, SQL
Backend: FastAPI, REST APIs, PostgreSQL, SQLAlchemy, JWT Authentication, API Design
Fundamentals: Data Structures & Algorithms, OOP, System Design (LLD/HLD, in progress)
DevOps & Tools: Docker, Git, GitHub, Linux
AI Integration: LLM API Integration (Gemini), Prompt Engineering
Frontend: React, TypeScript, Tailwind CSS, HTML/CSS, Figma

Certifications

HackerRank: SQL (Intermediate & Basics), Python (Basics)