KARAN KUMAR

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Education

Vellore Institute of Technology   **2023 – 2027**
Bachelor of Technology - Computer Science; CGPA: 8.53   *Chennai, Tamil Nadu*

Relevant Coursework

- Data Structures
- Operating Systems
- Computer Networks
- Database Management
- Object-Oriented Programming
- Web Programming
- Computer Architecture

Experience

ThinkDeck (Aizonics)   **May 2025 – July 2025**
Full Stack Developer Intern   *Remote*

- Built scalable REST APIs using **Go (Gin)** and **FastAPI**, powering core platform features and AI-generated responses.
- Designed and implemented **token-based authentication**, user rate-limiting, and middleware security layers.
- Integrated **RabbitMQ** and **Redis** to handle async tasks, caching, and background job processing efficiently.
- Collaborated on system architecture design and deployed containerized services with **Docker**.

Projects

Devdoq | *Next.js, Supabase, Gemini AI, Redis, GitHub API* | Live Link   **Personal Project — Feb 2025**

- Built an AI-powered developer documentation platform using **Gemini AI** and **GitHub API** for automated codebase analysis and documentation generation.
- Scaled to **650+ beta testers** with features including talk to codebase, code visualization, API docs generation, codebase mindmap, README.md generation and **email notifications** via Resend.
- Implemented **BullMQ job queues** and background workers for processing large repositories with **multi-threaded** document generation.

Xtoxic | *Next.js, Exa, Gemini, Vercel AI SDK* | Live Repo   **Personal Project — Mar 2025**

- Built and deployed a Twitter analysis tool in **1 hour** using Exa + Gemini for real-time toxicity detection via Vercel AI SDK.
- Scaled to **12,000+ users**, **50,000+ impressions** in 12 hours, open-sourced with **30+ GitHub stars**.

HTTP Server | *C, Linux, Sockets, POSIX Threads, Regex*   **Personal Project — Feb 2025**

- Built a multi-threaded HTTP server in C handling **9,000+ RPS** with **99.99% uptime** and 2.8ms latency.
- Implemented MIME detection, URL decoding, and efficient file serving with **60% lower memory usage**.

HackTrail | *Next.js, LangChain, Supabase, Flask*   **Hackathon Winner — Nov 2024**

- Built an AI platform for personalized learning using LangChain and YouTube API for skill roadmaps and quiz generation.
- Led team to **3rd place** out of **250+ teams**, fully developed in **10 hours**.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C, C++, SQL, Bash, HTML/CSS
Developer Tools: VSCode, Neovim, Git, GitHub, Lazygit, Docker, Postman, tmux, ngrok
Technologies/Frameworks: Node.js, Express, Hono, Next.js, React, React Native, Cloudflare Workers, Supabase, Redis, MongoDB, Linux

Leadership / Extracurricular

- Technical Core Committee Member at **IEEE ComSoc**, leading the technical team in developing projects and driving execution of innovative initiatives.
- Led SIH 2024 team to **3rd place** among **3200+ participants**, managing project deliverables and cross-functional collaboration.
- Managed **WatchOut Wearables** marketing, contributing to Shark Tank India pitch that secured 1 crore funding at 10 crore valuation.
- Oversaw marketing and stall operations for **IEEE ComSoc Club Expo'24**, guiding team coordination and execution.