

# KARAN KUMAR

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## Education

### Vellore Institute of Technology

Bachelor of Technology - Computer Science; CGPA: 8.5

2023 – 2027

Chennai, Tamil Nadu

## Relevant Coursework

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

## Experience / Projects

### Xtoxic | Next.js, Exa, Gemini, Vercel AI SDK | Live Repo

Personal Project — March 2025

- Built an AI-powered Twitter analysis tool in just **1 hour**, leveraging Exa for data scraping and Gemini for toxicity evaluation.
- Integrated Gemini AI to analyze user tweets and generate toxicity assessments with real-time feedback.
- Deployed on Vercel, utilizing the Vercel AI SDK for seamless and efficient AI inference.
- Achieved rapid growth with **12,000+ users** and **50,000+ post impressions** within the first 12 hours of launch.
- Open-sourced project gained **20+ GitHub stars**, attracting widespread developer interest.

### HTTP Server | C, Linux, Sockets, POSIX Threads, Regex

Personal Project — February 2025

- Engineered a high-performance multi-threaded HTTP server in C, processing 9,000+ concurrent requests per second with 99.99% uptime and 2.8ms average response time.
- Architected robust URL decoding and MIME type detection systems, achieving 100% request success rate across 10,000+ stress test scenarios.
- Optimized file serving mechanisms achieving 1.9 MB/s transfer speeds with 60% lower memory utilization compared to initial implementation.

### HackTrail | Next.js, TailwindCSS, Hono, LangChain, Supabase, Flask

Hackathon Winner — Nov 2024

- Architected an AI-powered learning platform generating personalized skill roadmaps, leveraging LangChain for dynamic content adaptation.
- Integrated YouTube API with ReactFlow to create interactive learning paths, automatically curating relevant educational content.
- Implemented an automated assessment system using LangChain to generate personalized quiz questions from video transcripts.
- Led a team of 4 to secure **3rd place** among **250+ teams**, completing development in **10 hours**.

### Puno | React Native, Nitro, Drizzle, LangChain, Pinecone, Clerk

Hackathon Finalist — Mar 2024

- Developed a mobile diary app with real-time query indexing using LangChain and Pinecone vector search.
- Engineered smart task detection algorithms to automatically convert diary entries into actionable tasks within the app.
- Optimized backend infrastructure using Nitro and Drizzle, implementing efficient caching and database queries.
- Secured **8th place** globally and **Best Freshers Team** award at GDG Devshouse, competing against 1,000+ teams.

## 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

- Worked as a Social Media Marketing Manager at **WatchOut Wearables**, which appeared on Shark Tank India and secured 1 crore funding for 10% equity at a 10 crore valuation
- Led SIH 2024 team to 3rd place among 3200+ participants; managed critical project deliverables and coordinated cross-functional team efforts
- Directed VFX production for aviation documentaries at **Greendot Aviation**, guiding the creative team to deliver high-quality animations and streamline production processes
- Managed **IEEE ComSoc Club Expo'24** operations, coordinating and guiding the team in preparing club expo stalls and overseeing overall marketing efforts