

Gautam Kumar

Full-Stack Developer | Solo-shipped SaaS products | AI integration

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Professional Summary

Full-Stack Developer with 3 internships (incl. Microsoft Elevate x AICTE) and 4 live AI SaaS products. Skilled in React, Node.js, Python, FastAPI, LLMs (LangGraph, NVIDIA NIM), Docker, and real-time systems. Seeking SDE / Full-Stack roles.

Education

Jagannath University

B.Tech in Computer Science

Jaipur, India

Jul 2023 – Expected Jul 2027

Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, OOP

Technical Skills

- **Languages:** TypeScript, JavaScript (ES6+), Python, Java (DSA), SQL
- **Frontend:** React 19, Next.js 16 (App Router), Vite, Tailwind CSS, Redux Toolkit, Zustand, Shadcn UI, Radix UI, TanStack Query, Framer Motion
- **Backend:** Node.js, Express 5, Hono v4, FastAPI, GraphQL (Apollo Server 4), Socket.io, WebRTC, BullMQ, Mongoose, Drizzle ORM, Clerk, Redis
- **AI/ML:** Groq (Llama 3.3-70B), LangChain, LangGraph, TensorFlow.js, PyTorch, SpeechBrain ECAPA-TDNN, NVIDIA NIM, ONNX
- **DevOps & Tools:** Docker, Turborepo, Git, GitHub Actions, Vercel, Render, Cloudflare Workers, MongoDB Atlas, PostgreSQL

Experience

Microsoft Elevate & AICTE

Emerging Technologies Intern

Remote

Jan 2026 – Feb 2026 | [Certificate](#)

- Built **Satark-AI**, a deepfake audio detection SaaS at **94% accuracy** using Microsoft Azure, FastAPI, PyTorch, and SpeechBrain ECAPA-TDNN; presented final demo to **Microsoft engineers**.
- Architected a **3-tier microservice** (React + Hono + FastAPI) with MFCC/Spectral forensics for real-time audio threat detection and **speaker identity verification**.

Edunet Foundation (AICTE & IBM SkillsBuild)

Frontend Web Development Intern

Remote

Aug 2025 – Sep 2025 | [Certificate](#)

- Engineered responsive UIs using HTML5, CSS3, JavaScript, achieving a **95+ Lighthouse score** and **100% cross-browser compatibility** via lazy loading and code splitting.
- Reduced initial page load time by **30%** through systematic frontend performance auditing and asset optimization.

YHills

Full-Stack Web Development Intern

Remote

Mar 2024 – Jun 2024 | [Certificate](#)

- Developed a scalable **MERN Stack** app with RESTful APIs and Redis caching, reducing API response time by **~40%**; built React frontend with Redux, improving engagement by **25%**.

Projects

InterviewMinds

[GitHub](#) | [Live](#)

React 18, Turborepo, Node.js 20, Express, Groq Llama 3.3-70B, face-api.js, WebRTC, BullMQ, GraphQL

- Built **production AI interview platform** (81 service modules, 18 phases) with **ML proctoring** (face-api.js + TensorFlow.js), custom **CRDT three-way merge** collaborative editor, and **WebRTC video calls** (STUN/TURN + SFU).
- Implemented Groq Llama 3.3-70B (**< 500ms**), multimodal voice analysis, **circuit breaker pattern** for 5+ services, BullMQ with pause-on-error, E2E encryption (RSA-4096 + AES-256-GCM), and **39 property-based tests**.

Satark-AI

[GitHub](#) | [Live](#)

React, Turborepo, Hono, FastAPI, PyTorch, NVIDIA NIM, Cloudflare Workers, PostgreSQL, Docker

- Architected **4-service Turborepo monorepo** for **multimodal deepfake detection** — audio via Wav2Vec2 + MFCC/ZCR scoring; images via **NVIDIA NIM** (Llama 3.2-90B) via Cloudflare Worker; speaker identity via ECAPA-TDNN (192-dim) at **94% accuracy**.
- Implemented SHA-256 deduplication, PostgreSQL (Drizzle ORM), WebSocket live monitor, **PWA + i18n**, Recharts analytics, and hardened Docker (**no-new-privileges**, non-root).

SwadKart

[GitHub](#) | [Live](#)

React 19, Express 5, Socket.io, Razorpay, SimpleWebAuthn, Redux Toolkit, Redis, Firebase

- Developed **multi-vendor food delivery PWA** with **4-role RBAC**, real-time GPS (Socket.io), Razorpay webhook validation, Redis + in-memory fallback, coupon engine, and Leaflet.js heatmaps.
- Built **FIDO2 WebAuthn** (SimpleWebAuthn for Fingerprint/FaceID) with replay attack protection, Firebase Google OAuth + JWT, Brevo OTP, crypto delivery OTP, SOS alerts, and **Groq AI chatbot**.

TexFolio

[GitHub](#) | [Live](#)

React 19, Hono v4, MongoDB, LangGraph, NVIDIA NIM, BullMQ, Redis, LaTeX (Docker), Razorpay

- Created **AI LaTeX resume builder SaaS** with **LangGraph 4-stage agent** (NVIDIA NIM → Gemini → Groq failover chain), **Organizations with RBAC** (Owner → Admin → Editor → Viewer), and LinkedIn PDF import via LLM.
- Built **BullMQ async PDF generation** with progress tracking (10% to 100%), distributed Redis rate limiting, GDPR compliance (data export + PII anonymization), API key auth (HMAC-SHA256), and Razorpay payments.