

AAYUSH PATEL

Full-Stack MERN Developer | Cybersecurity Analyst | AI Integration Engineer

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PROFESSIONAL SUMMARY

Passionate Full-Stack MERN Developer and Cybersecurity Analyst currently pursuing an MCA at CVM University (CGPA: 9.05). Experienced in building scalable web applications, AI/LLM-powered systems, and IoT-based security tools. Backend internship experience with PHP and Node.js at Rainstream Technologies; core interest and primary expertise lies in the MERN stack (MongoDB, Express.js, React, Node.js). Founder of Deltaus — a tech startup with 750+ newsletter subscribers. Proven ability to ship production-ready, security-hardened applications that blend performance, AI intelligence, and developer-first architecture.

PROFESSIONAL EXPERIENCE

Backend Intern (PHP) | Rainstream Technologies

Jan 2026 – May 10, 2026

Ahmedabad, Gujarat, India · On-site

- Developed and maintained server-side features and REST API endpoints using PHP, contributing to production web applications.
- Worked with relational databases to manage and optimize data storage, retrieval, and query performance.
- Collaborated with cross-functional teams to understand requirements and deliver reliable backend solutions within deadlines.
- Applied learnings from MERN stack expertise to advocate for and contribute to Node.js-oriented architectural discussions.

Founder & MERN Stack Developer | Deltaus

Apr 2025 – Present

Ahmedabad, Gujarat, India · Hybrid

- Founded and lead a tech startup specializing in MERN stack web development and cybersecurity consulting services.
- Publish the Deltaus newsletter covering web technologies, cybersecurity, and full-stack development for 750+ subscribers.
- Architect, develop, and deploy end-to-end MERN stack applications and provide cybersecurity advisory to clients.

Freelance Full-Stack Developer | Freelancer.com

Oct 2022 – Present

Remote

- Deliver full-stack web development solutions using the MERN stack (MongoDB, Express.js, React, Node.js) for global clients.
- Provide REST API design, backend architecture, and database management services across diverse industry domains.

KEY PROJECTS

AI STS — AI-Powered Support Ticket System · ai-sts.vercel.app

Feb 2025

Tech Stack: Node.js, Express.js, React, MongoDB, Clerk Auth, Google Gemini, Groq, OpenRouter APIs

- Engineered a full-stack support ticket platform with a hybrid Twitter-style feed and StackOverflow-style code snippet interface, featuring real-time optimistic UI updates and dynamic status transitions (Open → In Progress → Resolved/Critical).
- Integrated multi-provider AI (Google Gemini, Groq, OpenRouter) via an 'Ask AI' interface that generates context-aware technical solutions directly within each ticket card, with smart response caching to minimize API costs.
- Built an advanced Search & Discovery layer with global filtering by title, description, and status; an 'Explore' page for trending issues and top developers; and a 'My Picks' dashboard for developers to track claimed tickets.

- ▶ Implemented a hardened security architecture: MongoDB `_id` and `__v` fields redacted from all API responses, strict `.select()` projections to prevent PII leakage, public-safe `clerkId` routing, and soft-delete middleware to cleanly hide deleted users from all feeds.
- ▶ Delivered a premium dark-mode UI with glassmorphism effects, micro-animations for AI response generation, and a purposeful color brand system (purple = AI, blue = developer actions, red = critical blockers). Fully mobile-responsive.

SoulSync — Full-Stack Music Streaming Platform

May – Aug 2025

Tech Stack: React, TypeScript, Tailwind CSS, shadcn/ui, Node.js, Express.js, MongoDB, Socket.IO, Zustand, Clerk Auth

- ▶ Built a comprehensive music streaming platform with full player controls, album management, and secure SSO authentication via Clerk (Google/GitHub).
- ▶ Implemented real-time friend activity tracking using Socket.IO (Discord-inspired live listening status) and an admin dashboard with full CRUD for songs and albums.

Portable WiFi Pentesting & Monitoring Tool — ESP32

Feb 2025 · CVMU Hackathon @ ADIT (36 hrs)

Tech Stack: ESP32, Node.js, Nmap, Bettercap, Web UI

- ▶ Developed a portable, globally accessible WiFi penetration testing tool using ESP32 with port-forwarded remote control.
- ▶ Implemented port scanning, beacon flooding, fake access point (MITM) attacks, and real-time packet sniffing via a web-based control interface. Won Certificate of Achievement at CVMU Hackathon 2025.

Ship-Ease — Online Truck Booking & Bidding System

Dec 2023 – Apr 2024

Tech Stack: ASP.NET, C#, Microsoft SQL Server, HTML, CSS

- ▶ Developed a dynamic bidding marketplace enabling truckers to compete for shipments, with secure auth and automated session management.

TECHNICAL SKILLS

Frontend	HTML5, CSS3, JavaScript (ES6+), React.js, TypeScript, Tailwind CSS, shadcn/ui
Backend	Node.js, Express.js, PHP, ASP.NET, Flask, Java Server Pages (JSP), Laravel
Databases	MongoDB, MySQL, Microsoft SQL Server, phpMyAdmin
Languages	JavaScript, TypeScript, Python, Java, C, C++, C#
AI / LLM	OpenAI API, Anthropic Claude API, Google Gemini, Groq, OpenRouter, NLP, LLM Integration
Cybersecurity	Ethical Hacking, WiFi Pentesting, Network Security, Nmap, Bettercap, ESP32, IoT Security
Tools	Git, GitHub, VS Code, Socket.IO, Zustand, Clerk Auth, Cloudinary, Vercel, Canva

EDUCATION

Master of Computer Applications (MCA)

Sep 2024 – May 2026

ISTAR — CVM University, Vallabh Vidyanagar | **CGPA: 9.05**

Bachelor of Computer Applications (Hons.) — First Class with Distinction

Sep 2021 – May 2024

SEMCOM — CVM University, Vallabh Vidyanagar | **CGPA: 8.9**

CERTIFICATIONS & ACHIEVEMENTS

- ▶ Learn Ethical Hacking From Scratch 2024 — Zaid Sabih Al Quraishi, zSecurity
- ▶ Cybersecurity Analyst Job Simulation — Tata Consultancy Services (TCS Forage)
- ▶ SQL for Data Science — University of California, Davis (Coursera)
- ▶ Exploratory Data Analysis for Machine Learning — IBM
- ▶ Introduction to Artificial Intelligence (AI) — IBM
- ▶ Google Cloud Skills Boost — Multiple certifications; earned Google Cloud swag
- ▶ Certificate of Achievement — CVMU Hackathon 2025, IoT-based WiFi Pentesting Tool
- ▶ Volunteer & Web Designer — Technokhoj'25, ISTAR College Annual Tech Fest
- ▶ Newsletter Publisher — Deltaus (750+ subscribers), covering web dev & cybersecurity