

Kunal Tailor

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Professional Summary

Software Engineering undergraduate (B.Tech, Computer Science – AI & Data Science, CGPA 8.53/10; anticipated graduation June 2027) with hands-on experience across the complete software development lifecycle — design, development, testing, deployment, and maintenance — delivering reusable, modular components for web applications and security-focused systems. Proficient in Java, Python, C++, and SQL, with practical experience in Node.js REST API development, data integration, CI/CD automation, and Git/Gitflow source-control workflows. Comfortable operating on agile, cross-functional teams and quickly learning new tools and cloud platforms; delivered a working software prototype under a 36-hour hackathon constraint.

Technical Skills

Core Languages: Java, Python, C++, C, JavaScript, TypeScript, SQL, Solidity

Web & Frontend: React.js, HTML5, CSS3, Tailwind CSS, responsive component-based UI

Backend & APIs: Node.js, Express.js, REST API design & development, MVC architecture, FastAPI, Flask

Data & Integration: MongoDB, MySQL, PostgreSQL, SQL schema design, JSON/REST data integration

Source Control & CI/CD: Git, GitHub, Gitflow workflows, pull-request review, CI/CD pipelines, Docker

Cloud: AWS (EC2, S3), Vercel, Render, Kubernetes fundamentals; ramping up on Azure

Testing & Security: Unit/integration/regression testing, Postman, JWT, OAuth 2.0, RBAC, keccak256

Projects

AI Dashcam – Local Multi-Agent CV + LLM Incident Explainer

Mar 2026

Python, FastAPI, Docker, LangChain, Mistral 7B, Ollama, Pydantic, YOLO11, FFmpeg

GitHub

- Built a fully local, containerised (Docker) Python backend with a 5-stage pipeline — object detection (YOLO11), tracking, optical-flow anomaly detection, VLM narration, and LLM report generation (Mistral 7B via Ollama) — with zero cloud dependency.
- Enforced Pydantic schema validation between pipeline stages as inter-service contracts with confidence-based fallback retry; evaluated output quality using BLEU-4/ROUGE-L against public driving-incident datasets.

EchoMeet – Real-Time Communication Platform

Aug 2025

React.js, Node.js, WebRTC, WebSocket, Socket.io

Live GitHub

- Engineered a custom Node.js signaling server with ICE candidate negotiation and SDP offer/answer exchange, supporting 5–10 concurrent users at sub-second latency.
- Diagnosed a signaling bottleneck, deduplicated event handlers, and batched messages — cutting overhead 40% and connection time from ~2s to under 1s.

TradeSphere – Full Stack Trading Platform

Feb 2025

React.js, TypeScript, Node.js, Express.js, MongoDB, REST APIs

Live GitHub

- Owned the full SDLC for a full-stack trading platform, building modular REST API services (Node.js/Express.js) backed by a MongoDB tier handling 1,000+ records.
- Diagnosed an N+1 query bottleneck through API profiling and re-optimized database queries, improving response time ~25%.

DocVerify – Blockchain-Based Document Verification System

Feb 2026

Solidity, Ethereum, IPFS, React.js, Web3.js

GitHub

- Designed a security-focused decentralized app with role-based access control (Admin/Exporter/Public) and keccak256 integrity checks for tamper-proof document verification.
- Tested across 200+ documents with 0 false-positive verifications; integrated Web3 wallet authentication and immutable on-chain storage.

Education

MIT World Peace University, Pune, Maharashtra

B.Tech – Computer Science (Artificial Intelligence & Data Science) | CGPA: 8.53/10 | Aug 2023 – Present (Anticipated Graduation: June 2027)

Lakshmipat Singhania School, Sirohi, Rajasthan (CBSE)

Class XII – 86.6% (2021–22) | Class X – 86.4% (2019–20)

Achievements & Certifications

- Competitive Programming: Solved 300+ problems on LeetCode across Arrays, Trees, Graphs, Dynamic Programming, and Sliding Window.
- Hackathon: Smart India Hackathon (SIH), college-level; delivered a functional prototype under a 36-hour constraint within a cross-functional team.
- Certifications: Full Stack Web Development | DSA in C++ | AWS & Docker