

NOUSHIK AJAY KARUTURI

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Summary

Full Stack Developer with experience building and shipping production web applications across the complete stack — React.js frontends, Node.js/Python backends, REST APIs, and database design. Skilled in AI-assisted development (Cursor, Claude, GitHub Copilot) and building AI-powered product features using LLM APIs. Comfortable with fintech workflows, compliance-grade backend systems, and taking full product ownership from architecture to deployment.

Technical Skills

Frontend: React.js, JavaScript, HTML5, CSS3, Responsive UI Design

Backend: Node.js, Express.js, Python, Flask, FastAPI, REST API Design, Webhook Integrations

Databases: MySQL, MongoDB (concepts), PostgreSQL (concepts), Redis (caching concepts)

AI & LLM: LLM APIs (OpenAI, Anthropic, Gemini), Agentic Workflows, LangChain (concepts), Cursor AI, GitHub Copilot, Claude

Compliance & Security: RBAC, Authentication, Authorization, 21 CFR Part 11, Audit Trails, Secure Data Handling

DevOps & Tools: Git, GitHub, Docker (familiar), CI/CD concepts, Postman, Linux, Agile/Scrum

Experience

Software Development Engineer

Feb 2026 – Present

Raise Lab Equipment

Hyderabad, India

- Built and shipped backend APIs and data-processing workflows for laboratory automation SaaS products — owned the full cycle from architecture to production deployment.
- Implemented RBAC, authentication, authorization, and **21 CFR Part 11 compliant audit trail** workflows — enforcing immutable logging, separation of duties, and data integrity across all regulated modules.
- Designed secure access control systems: role-gated record locking, dual-approval workflows, and export permission controls — production patterns directly applicable to fintech and healthtech compliance (PCI-DSS, HIPAA).
- Used AI-assisted development tools (Cursor AI, Claude) daily to accelerate delivery, generate test cases, and improve code quality.

Projects

GYMOS – Full-Stack AI Fitness Platform | *React.js, Python, Flask, REST APIs, MySQL*

- Built complete full-stack application — React.js frontend with responsive UI, Flask backend with REST APIs, and MySQL database — deployed end to end with full product ownership.
- Designed AI-powered recommendation engine using LLM APIs to generate personalised workout and diet plans; implemented adaptive logic that adjusts outputs dynamically from user engagement data.
- Built backend APIs for user profiles, goal tracking, analytics processing, and recommendation generation; structured for extensibility so new AI features can be added without touching core consumers.
- Leveraged Cursor AI and Claude throughout development for faster iteration, test generation, and architectural decisions.

Agentic LLM Workflows & AI Product Features | *Python, OpenAI, Anthropic, LangChain concepts*

- Built multi-step LLM-powered workflows integrating OpenAI and Anthropic APIs — tool calling, branching control flow, retry logic, structured output contracts, and graceful failure handling.
- Designed agent-style pipelines for content generation, decision support, and automation; instrumented with logging to track output quality and surface failure patterns.
- Explored LangChain-style orchestration patterns for chaining LLM calls with tool use and memory — applicable to AI-powered recruitment and interview platform features.

Compliance-Grade Access Control & Audit Trail System | *Python, Flask, MySQL*

- Designed full RBAC permission matrix with role hierarchies, module-level access controls, and separated view vs. export permissions — patterns applicable to HIPAA and PCI-DSS regulated products.
- Built immutable audit trail capturing every action with user ID, timestamp, action type, and before/after state; enforced countersignature requirements for record amendments.

Secure Voting System with Facial Recognition | *Python, FaceNet, MTCNN*

- Built AI-powered identity verification integrating FaceNet and MTCNN; designed transactional backend ensuring voting integrity, duplicate prevention, and full audit trail of all actions.

Education & Certifications

Global Academy of Technology

B.E. – Information Science

Bangalore, India

Expected Aug 2026

Blockchain in Depth – Infosys Springboard | Cloud-Native Applications in Java – Infosys Springboard