

NEHA CHAUDHARI

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Senior backend-focused software engineer with 5+ years of experience building scalable APIs, integrations, and automation systems for customer-facing products. Strong fit for AI-driven automation work through hands-on experience building Python/FastAPI and LLM-powered workflow systems, plus production backend ownership across performance, reliability, and cross-functional delivery.

CORE SKILLS

Languages: Python, Ruby, C **Backend & APIs:** FastAPI, Django, Ruby on Rails, REST APIs, OAuth2 **Data & Search:** PostgreSQL, Redis, MongoDB, pgVector, Elasticsearch **Cloud & DevOps:** Docker, Kubernetes, AWS, GCP, CI/CD **AI & Automation:** LLM pipelines, workflow orchestration, AI agents, RAG, prompt engineering **Engineering:** System design, performance optimization, agile collaboration, mentoring

PROFESSIONAL EXPERIENCE

Thingbits Electronics Pvt Ltd | Mumbai, India

Oct 2018 – Jul 2024

Software Developer

- Built and maintained secure backend services and REST API integrations for a Rails-based platform supporting 50K+ monthly users, improving data security and reliability through OAuth2-based integrations.
- Led cross-functional backend delivery with product and design teams, shipping customer-facing features and mentoring junior developers, which improved team velocity by 20%.
- Improved application performance by 40% by optimizing relational queries, indexing strategies, and Elasticsearch-backed search workflows for a high-traffic production system.
- Built an automated verification workflow integrating Stripe, third-party APIs, n8n, and OpenAI, reducing manual review time by 60% and enabling 2x faster order processing.

Clark University | Worcester, MA

Jan 2025 – Apr 2025

Teaching Assistant — Survey of Systems and Programming Languages

- Mentored 30+ students in C# and object-oriented programming, improving on-time project completion and reducing last-week resubmissions through structured technical guidance.

SELECTED PROJECTS

CodeSentry | Python / FastAPI / LLM Pipelines

Sep 2025

AI-Powered Code Review and Security Analysis System

- Designed and built a Python/FastAPI backend that analyzes repositories using multi-file pipelines and LLM-assisted workflows to generate structured security and code-quality feedback mapped to CWE categories.
- Combined deterministic checks with AI-generated remediation guidance to make output reliable and usable inside a real developer workflow.

Anchor | Python / Docker / Cloud Automation

Feb 2026

GitHub-to-Cloud Deployment Automation

- Built a backend automation system that detects application frameworks, generates containerized deployment paths, and orchestrates cloud deployment workflows with real-time logs, reducing manual setup effort.

Forge | Multi-Agent Workflow System

Jan 2026

Specification-to-Code Development Automation

- Built a multi-agent development workflow that converts structured specifications into functional codebases using task decomposition, code generation, and validation pipelines.

EDUCATION

Master of Science in Computer Science | Clark University, Worcester, MA | Dec 2025

Bachelor of Science in Electronics | MAKAUT, Burdwan, India | Jul 2018