

Preet Raval

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Full-Stack Software Engineer with experience building and deploying production-ready web platforms, workflow automation systems, and AI-assisted applications. Strong skills in Next.js, React, FastAPI, PostgreSQL, Docker, and Nginx, with hands-on exposure to Generative AI, LLM integration, and intelligent automation. Focused on scalable system design, secure backend services, and modern UI/UX.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, C++, C#
Frontend: React, Next.js, Tailwind CSS, HTML, CSS
Backend: FastAPI, Node.js, REST APIs, Auth & API Security
Databases: PostgreSQL, MySQL, MongoDB, Data Modeling
AI / GenAI: ChatGPT API, LLM Integration, Prompt Engineering, AI Automation
DevOps: Docker, Nginx, Linux, CI/CD, GitHub Actions
Tools: Git, GitHub, Postman, VS Code, Jira, Figma, Vercel, AWS (Foundational)

EXPERIENCE

Software Engineer

American Circuits Inc. – Charlotte, NC | Jul 2025 – Present

- Lead developer for NEXUS, an enterprise traveler management and workflow automation system.
- Built full-stack architecture using Next.js, FastAPI, PostgreSQL, Docker, and Nginx.
- Implemented QR/Barcode tracking, step-based workflow enforcement, audit trails, and operator accountability..
- Improved backend performance and reliability through optimization and database consolidation.

PROJECTS

NEXUS – Traveler Management System (American Circuits Inc.) (Project Lead)

- Sole owner and technical lead for a company-wide traveler lifecycle and workflow automation platform.
- Designed real-time routing, QC enforcement, and complete traveler audit-history reconstruction.
- Implemented secure role-based access, encrypted APIs, and production-grade deployments.
- Reduced paper-based workflows and standardized communication across manufacturing operations.

[Serenity Living Website](#) – Production Deployment (Project Owner)

- End-to-end owner of a production website delivered to a real client.
- Led UI/UX design, backend development, deployment, and post-launch optimization.
- Coordinated client requirements and translated business needs into a scalable technical solution.

NeuroSmriti – Cognitive Simulation & AI Research Toolkit

- Designed a Python-based simulation system modeling memory retention, decay, and cognitive impairment.
- Built mathematical and ML-inspired simulations with data visualizations.

Samadhan (In Progress) Full-Stack Engineer Personal Project

- Building a **ChatGPT-like AI conversational application** using **FastAPI** and **LLM integration** for natural language understanding and response generation.
- Implementing prompt handling, conversational context management, and API-driven backend services.
- Actively enhancing response quality, prompt workflows, and overall system architecture

EDUCATION

B.A. in Computer Science

University of North Carolina at Charlotte | Jan 2023 – Dec 2025

CERTIFICATIONS

AWS Solutions Architect (Associate – Learning), Cisco CCNA (Fundamentals), SQL for IT Professionals (O'Reilly), Udemy C++ & Front-End, Coursera Java OOP