

Neelkumar Patel

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TECHNICAL SKILLS

- AI & Machine Learning: RAG, Vector Databases, LLM Applications, LLM Evaluation, Embeddings, PyTorch
- Software Engineering: Python, Java, TypeScript, JavaScript, C, SQL, Data Structures & Algorithms, Rust (working knowledge)
- Backend & APIs: FastAPI, REST APIs, Microservices, PostgreSQL, Webhooks, Event-Driven Architecture
- Cloud & DevOps: AWS, GCP, Docker, Terraform, Serverless Architecture, CI/CD, Linux
- Frontend Engineering: React, Next.js, Tailwind CSS, shadcn/ui, Streamlit

EDUCATION

Computer Engineering Technology - Advanced Diploma

May 2024 - April 2027

Sheridan College, Brampton, ON

EXPERIENCE

Moorcheh AI by Edge AI Innovation, Remote

Founding Engineer (Part-time)

September 2026 - Present

Previously: **Founding Engineer Intern**

May 2026 - August 2026

- Built Memanto, an open-source memory layer for AI agents, reaching 1.8k+ GitHub stars in 3 months.
- Shipped production RAG integrations across Agno, Mastra, CAMEL-AI, and AgentScope, serving real users.
- Built a custom MCP server and integrated Moorcheh with LangChain and n8n for question-answering workflows over large document collections.
- Profiled and optimized real-time search across GCP, on-prem, and edge deployments, cutting core search latency by ~72%.
- Launched Moorcheh on the GCP Marketplace and owned enterprise delivery and solution architecture.

Software Engineer (Part-time)

September 2025 - April 2026

Previously: **Software Engineering Intern**

May 2025 - August 2025

- Engineered AWS Lambda/DynamoDB serverless backend, cutting compute costs by 60%.
- Integrated Stripe billing and usage tracking for 400+ active subscription users.
- Built a production-ready AI chat boilerplate with shadcn/ui (React), featuring 10+ themes and 50+ fonts.

Analyze Agency, Remote

Cloud Data Engineer (Freelance)

February 2025 - February 2026

- Built ETL pipelines and automated SQL workflows across 6 cloud platforms with 10+ Python scripts, cutting manual query time by 70%.
- Built a system to log performance metrics for 500+ queries, boosting data accessibility by 40%.

LEADERSHIP

AWS Student Builder Group at Sheridan College - Founder and Leader

- Built and led a 700+ member AWS Student Builder Group with a 10-person core team.
- Hosted North America's first AWS Student Community Day.
- Delivered 5+ hands-on workshops and 1 guest speaker event on practical cloud skills.

PROJECTS

- DeepFace - Real-time computer vision for deepfake protection; PyTorch inference optimized under strict latency budgets. (Python, PyTorch, OpenCV)
- RAG Video Platform - Question-answering platform over large video and document collections with an AWS serverless backend. (Lambda, S3, Bedrock)
- Porchline - Voice-driven AI agent that builds websites through conversation, with a live phone demo. (AI voice agent)
- Mesh Studio - AI-driven 3D CAD editor with real-time STL/3MF previews and interactive visualization. (Next.js, FastAPI, Python)

CERTIFICATIONS

- AWS Certified Cloud Practitioner

August 2024 - August 2027

ACHIEVEMENTS

- Gold Medal, Sheridan Skills - Cloud Computing
- Silver Medal, Skills Ontario Provincial - Cloud Computing
- Hackathons: 7+ as participant, 3 as judge