

# Nirav Patel

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## Education

### Pennsylvania State University

Bachelor of Science, Software Engineering

(Pennsylvania, USA)

GPA: 4.0 | Expected 2027

## Professional Experience

### Software Engineer Intern (Returning Intern)

TrainingHub

Apr 2024 - Aug 2024, Apr 2025 - Aug 2025

Hybrid, Mississauga

- Co-architected and shipped a public-facing platform ([Link](#)), building Python REST APIs and integrating React components to support enrollment, authentication, and course workflows for 5,000+ learners across 60+ programs.
- Built backend integrations and data pipelines to ingest course metadata and live session logs, increasing analytics refresh cadence from weekly to daily for 500+ active users.
- Optimized SQL queries (BigQuery), API contracts, and validation layers, cutting dashboard load times by ~30% and enabling data-driven product changes that increased learner retention by 50%+.
- Deployed and operated AWS infrastructure using Terraform and CI/CD pipelines, supporting version-controlled environments and reliable production releases.

### Founder

KidsTraining

Jul 2023 - Present

Remote

- Led a team of 6 instructors to teach 200+ youth (ages 12–18) through interactive classes, hands-on projects, innovative workshops, and impactful hackathons, maintaining 100% project completion and satisfaction rates.
- Authored 40+ developer-focused tutorials, technical guides, and code-along projects (Python, JavaScript, Web Development, Introductory AI/ML), emphasizing clarity, reproducibility, and applied learning.
- Built lightweight automation tools (Python + REST APIs) to streamline feedback, track progress, and personalize learning.

### Engineering Outreach Liaison

Toronto Metropolitan University

Feb 2024 - May 2025

Greater Toronto Area

- Delivered 350+ industry-backed STEM workshops (Hydro One partnership) to 5,000+ students across the GTA, improving engineering interest by 26.6%.
- Automated feedback processing and performed data analysis (Excel) to optimize workshop design, improving engagement and operational efficiency.

## Skills

**Languages:** Python, JavaScript, TypeScript, C++, SQL, HTML/CSS

**Frameworks:** FastAPI, Django, Flask, React, Next.js, Express, Node.js, Flutter, Tailwind CSS, REST APIs, WebSockets

**Tools:** AWS (EC2, S3, IAM), Docker, Terraform, Redis, PostgreSQL, BigQuery, GitHub Actions (CI/CD), OpenAI API

**Core Strengths:** Backend System Design, APIs, Data Structures & Algorithms, Async & Real-Time Systems, Full-Stack Dev

## Projects

- AWE (Autonomous Workflow Engine)**    FastAPI (WebSockets), React, TypeScript, D3.js    [GitHub](#)
- VENTURE (AI-Driven Music Explorer)**    Python, Django, JavaScript, OAuth 2.0, REST APIs, Render    [GitHub](#), [Demo](#)
- AI Financial Advisor (SaaS, In Progress)**    FastAPI, Next.js, PostgreSQL, Redis, Docker, OpenAI API    [GitHub](#)
- Network (Social Media Platform)**    Python, JavaScript, Fetch API, Bootstrap, SQLite    [GitHub](#)