

ANDREW HING

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EDUCATION

Stevens Institute of Technology Sep 2025 — May 2026
Master of Science, Computer Science GPA: 3.7

Stevens Institute of Technology Sep 2021 — May 2025
Bachelor of Science, Computer Science

EXPERIENCE

Software Engineer Intern Jun 2025 — Aug 2025
Granite Telecommunications Quincy, MA

- **Reduced telecom ticket intake time by 98%** by engineering a production-grade backend automation system using **LangGraph** and **DSPy**, replacing manual NOC workflows.
- Improved reliability and SLA compliance by designing an event-driven architecture with **Kafka**, **PostgreSQL**, and **Cloud Tasks**, enabling concurrent routing, retries, and fault recovery.
- Scaled backend services to production by **deploying Dockerized microservices to GCP Kubernetes with CI/CD, metrics (Prometheus), and tracing (OpenLit)**.

Machine Learning Engineer Sep 2025 — Oct 2025
Anote AI Las Vegas, NV

- **Reduced real-time decision latency by 98%** by building a backend data fusion and reasoning pipeline in Python for multimodal inputs.
- Delivered validated backend solutions by translating operational requirements from **U.S. Air Force stakeholders** into production-ready services.

Course Assistant for CS 546: Web Programming Sep 2024 — Present
Stevens Institute of Technology Hoboken, NJ

- Enhanced **problem solving** capabilities for **300+ students** by providing deep technical mentorship in **Node.js**, **Express**, and **REST APIs**.

PROJECTS

Prospra | Next.js, FastAPI, Clerk, PostgreSQL, Docker, AWS EC2 Nov 2025 — Dec 2025

- Designed and implemented a **full-stack platform using Next.js and FastAPI** that generates job-specific projects and interview preparation workflows using AI, enhancing user engagement.
- Built a modular backend integrating **authentication (Clerk)**, **billing (Stripe)**, and **AI services**, containerized with **Docker** and **deployed on AWS EC2**, optimizing deployment processes.

Real Time Sentiment Analysis for Social Media | React, FastAPI, Kafka, MySQL, AWS Jan 2025 — Feb 2025

- Enabled real-time data processing at stream scale by building a backend ingestion and inference pipeline using **Kafka (AWS MSK)** and **FastAPI**.
- **Improved query performance and reliability** by persisting processed sentiment data in **MySQL (AWS RDS)** with fault-tolerant consumers.

SKILLS

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

Frameworks & Libraries: DSPy, LangChain, React, Next.js, Express, Flask, FastAPI, Node.js, PyTorch

Databases: PostgreSQL, MongoDB, MySQL

Developer Tools: Docker, AWS, GCP, Git, Postman, Firebase, Jira, Linux