

ANDREW HING

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EDUCATION

Stevens Institute of Technology <i>Master of Science, Computer Science</i>	<i>Sep 2025 — May 2026</i> <i>GPA: 3.7</i>
Stevens Institute of Technology <i>Bachelor of Science, Computer Science</i>	<i>Sep 2021 — May 2025</i>

EXPERIENCE

Software Engineer Intern <i>Granite Telecommunications</i>	<i>Jun 2025 — Aug 2025</i> <i>Quincy, MA</i>
<ul style="list-style-type: none">• 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 <i>Anote AI</i>	<i>Sep 2025 — Oct 2025</i> <i>Las Vegas, NV</i>
<ul style="list-style-type: none">• 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 <i>Stevens Institute of Technology</i>	<i>Sep 2024 — Present</i> <i>Hoboken, NJ</i>
<ul style="list-style-type: none">• 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	<i>Nov 2025 — Dec 2025</i>
<ul style="list-style-type: none">• 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	<i>Jan 2025 — Feb 2025</i>
<ul style="list-style-type: none">• 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