

# Hsiang Yu Huang (Anna)

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## EDUCATION

### Boston University

Boston, MA

Master of Science in Data Science | GPA: 3.59 / 4.0

Dec. 2025

**Relevant Courses:** Deep Learning, Graduate Databases, Data Engineering, Time Series, Artificial Intelligence, Crypto

### National Taiwan University of Science and Technology

Taipei, Taiwan

BBA in Industrial Management and Bachelor Program of Finance, Minor in Computer Science | GPA: 3.85 / 4.3

Jun. 2023

**Relevant Courses:** Algorithms, Machine Learning, Data Analytics, Statistics, Object-Oriented Programming

## SKILLS

- **Languages & Frameworks:** Python, SQL, C++, TypeScript, JavaScript, Java, R, FastAPI, Next.js, Node.js, React, HTML/CSS
- **Cloud & DevOps:** AWS, Azure, PostgreSQL, MongoDB, Docker, Linux, Nginx, CI/CD, Git, Redis, Kafka, Web Socket
- **Data Engineering & Tools:** PySpark, ETL Pipeline Automation, SQL Database Design, Azure Synapse, PostHog, Power BI
- **AI Engineering & ML:** LangGraph, LangChain, MCP, PyTorch, TensorFlow, Scikit-Learn, Pandas, NumPy, NLP, Time Series

## WORK EXPERIENCE

### AI Engineer Intern

Boston, MA

Finz | Stack: FastAPI, Faust, Kafka, CI/CD, MongoDB, AWS(EC2), Stripe, QBO

Dec. 2025 – Present

- Refactored core calculation algorithms and **Faust streaming agents**, optimizing **backend logic** and managing **Kafka topic** configurations for accurate real-time data processing.
- Maintained **CI/CD pipelines** to automate frontend deploy workflows and executed backend server deployments on **AWS EC2** via **SSH**, ensuring seamless service updates and system stability.

### Full Stack Developer – Citale ([citaleco.com](http://citaleco.com))

Boston, MA

BU Spark! Launch Lab (Stipend) | Stack: Next.js, SQL, Supabase, Google Maps API, Vercel, PostHog

Sep. 2024 – May. 2025

- Designed **PostgreSQL schemas** with foreign keys for users, posts, and relationships, ensuring data integrity.
- Implemented **10+ features** including messaging, notifications, and user profiles using **Supabase** and **Next.js**.
- Managed **Vercel** deployments and **PostHog** analytics within **weekly Agile Sprints** to iterate features.

### Research Assistant – LLM Platform

Boston, MA

BU BIT Lab (Unpaid) | Stack: FastAPI, MongoDB, LangGraph, Prompt Engineering, OpenRouter, MS Clarity

Sep. 2025 – Jan. 2026

- Architected a **RESTful API using FastAPI** to orchestrate a **LangGraph multi-agent system**, managing asynchronous communication between Coordinator, Writer, and Product agents.
- Designed a **MongoDB** schema to store complex conversation history and retrieval contexts, ensuring efficient data persistence for the multi-model console.

## PROJECTS

More Projects are available here: [hsiangyuhuang.com/projects](http://hsiangyuhuang.com/projects)

### From Tweets to Trends – Predicting Stock Volumes Using X Sentiment

Boston, MA

Course: Big Data Engineering | Stack: Azure Functions (Python), ADLS Gen2, Rapid API

Feb. 2025 – May. 2025

- Leveraged **Azure Functions (Timer Trigger)** to establish **Cron-based automation** for the daily ingestion of social media streams from X (Twitter).
- Executed the **Extract & Transform (ETL)** process using **Python** to parse raw JSON data, converting unstructured logs into analysis-ready formats.

### Winner – DS+X Hackathon 2025 (Best Overall, HackBU 1st)

Boston, MA

BU Spark! | Stack: Python, FastAPI, OpenAI API, OpenAlex API

Oct. 2025

- Engineered the backend for **RhettSearch**, an interactive research gamification platform driven by AI.
- Orchestrated a **RAG pipeline** that retrieves literature via **OpenAlex API** and synthesizes insights using **OpenAI API**.
- Designed structured **RESTful APIs** to parse complex JSON citation data, ensuring serialization for frontend integration.