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 to process **Stripe and QBO** financial data, optimizing **backend logic** to generate accurate real-time **cashflow and margin metrics**.
- 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) 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

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.