

Hsiang Yu Huang (Anna)

Allston, MA | Tel: +1 617-319-5044 | huanganna1004@gmail.com | www.hsiangyuhuang.com | linkedin.com/in/hsiangyuhuang

EDUCATION

Boston University <i>Master of Science in Data Science GPA: 3.59 / 4.0</i> Relevant Courses: Deep Learning, Graduate Databases, Data Engineering, Time Series, Artificial Intelligence, Crypto	Boston, MA Dec. 2025
National Taiwan University of Science and Technology <i>BBA in Industrial Management and Bachelor Program of Finance, Minor in Computer Science GPA: 3.85 / 4.3</i> Relevant Courses: Algorithms, Machine Learning, Data Analytics, Statistics, Object-Oriented Programming	Taipei, Taiwan Jun. 2023

SKILLS

- **Languages & Frameworks:** Python, SQL, C++, TypeScript, JavaScript, R, FastAPI, Next.js, Node.js, Flask, React, HTML/CSS
- **Cloud & DevOps:** AWS (Lambda, S3, EC2), Azure, PostgreSQL, MongoDB, Docker, Linux, Nginx, CI/CD, Git
- **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

Full Stack Developer – Citale (citaleco.com) <i>BU Spark! Launch Lab (Stipend) Stack: Next.js, SQL, Supabase, Google Maps API, Vercel, PostHog</i>	Boston, MA Sep. 2024 – May. 2025
<ul style="list-style-type: none">◦ Designed PostgreSQL schemas with foreign keys for users, posts, and relationships, ensuring integrity.◦ Implemented 10+ features including messaging, notifications, and user profiles using Supabase and Next.js.◦ Deployed production app on Vercel with PostHog integration for user analytics and system monitoring.	
Research Assistant – LLM Platform <i>BU BIT Lab (Unpaid) Stack: FastAPI, MongoDB, LangGraph, Prompt Engineering, OpenRouter, MS Clarity</i>	Boston, MA Sep. 2025 – Present
<ul style="list-style-type: none">◦ Architected a RESTful API using FastAPI to orchestrate a LangGraph multi-agent system, managing asynchronous communication between Coordinator, Writer, and Reviewer agents.◦ Designed a MongoDB schema to store complex conversation history and retrieval contexts, ensuring efficient data persistence for the multi-model console.	
Research Assistant – Machine Learning for Sales Forecast <i>NTUST Artificial Intelligence and Decision Analysis Lab Stack: R, XGBoost, Time Series Analysis</i>	Taipei, Taiwan Nov. 2023 – Jul. 2024
<ul style="list-style-type: none">◦ Built an ARIMA-XGBoost forecasting pipeline, boosting predictive accuracy (R^2) from 8.3% to 73.4%.◦ Developed a conditional rolling window model to enable adaptive, real-time predictions.	

PROJECTS

More Projects are available here: hsiangyuhuang.com/projects

Boston Weekend Agent <i>Stack: AWS (Lambda, Step Functions, EC2, S3), Python, LangChain, Cron</i>	Boston, MA Nov. 2025
<ul style="list-style-type: none">◦ Orchestrated a serverless ETL pipeline using AWS Step Functions and Lambda to ingest real-time event data.◦ Deployed an EC2-based web scraper with Cron jobs to bypass anti-bot restrictions for reliable data extraction.◦ Generated AI summaries via LangChain and stored static JSON in S3 for low-latency frontend delivery.	
From Tweets to Trends – Predicting Stock Volumes Using X Sentiment <i>Course: Big Data Engineering Stack: Azure Functions (Python), ADLS Gen2, Rapid API</i>	Boston, MA Feb. 2025 – May. 2025
<ul style="list-style-type: none">◦ 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) <i>BU Spark! Stack: Python, FastAPI, OpenAI API, OpenAlex API</i>	Boston, MA Oct. 2025
<ul style="list-style-type: none">◦ 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.	