Charlotte (Hsien-Ying) Lin

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EDUCATION

Cornell Tech, Cornell University – New York, NY May 2027

MS in Applied Information Science & Information Systems | ***Certificate candidate in Computer Science***

- Relevant Coursework: Applied Machine Learning, Data Structures and Algorithms, HCI and Design, Interactive Devices
- Honors/Activities: Merit-based Scholarship Recipient, School Ambassador

Fashion Institute of Technology – New York, NY May 2022

BS in Business Management*, GPA: 3.85*

TECHNICAL SKILLS

Coding Languages: Python, C#, JavaScript, Java, TypeScript, C/C++, Shell Script, HTML, CSS

Frameworks: React, Node.js, Express, FastAPI, Flask

Tools & Platforms: AWS, GCP, Docker, Kubernetes, CI/CD, Linux, Redis, MySQL, MSSQL, MongoDB, PostgreSQL, Git, Figma

PROFESSIONAL EXPERIENCE

PXMart, **Software Engineer** – Taipei, TW Feb 2024 – Jun 2025

- Built multiple **C# + SQL Server** application modules and a reusable backend component for a Warehouse Management System (over **30K+** users), introducing SQL query optimization, database auto-reconnect and centralized error handling, which lowered average response time by **15%** and decreased support tickets by **20%**.
- Implemented an asynchronous batch backend for label-printing application, cutting print latency from **5s to 2s** and increasing throughput during peak operations.
- Designed and developed a KPI dashboard with interactive **JavaScript** charts to highlight staffing inefficiencies, contributing to a **12%** reduction in overtime expenses.
- Delivered automated **Python** reporting pipelines that generate daily KPI reports, saving 1.5 hours of manual work per day.
- Partnered with the Infrastructure team to improve **Azure DevOps** pipelines and **Git-based** rollback workflows, lowering production MTTR to under 30 minutes.

Giorgio Armani, Data Analyst – New York, NY May 2022 – June 2023

- Analyzed multi-country sales and inventory data (US, Canada, Brazil) using **SQL and Excel**, identifying growth opportunities and contributing to a **10%** increase in revenue through actionable insights.
- Leveraged statistical models and time-series analysis on historical sales data to recommend pricing and promotion strategies that consistently exceeded monthly revenue targets.
- Collaborated with senior analysts to build open-to-buy (OTB) forecasting models for seasonal planning, enhancing alignment between buying and inventory allocation.

SELECTIVE PROJECTS

ETF Automated Trading Platform — *Python, Streamlit, Telegram Bot API* Jul 2025 – Present

- Designed and implemented an automated trading engine in **Python** for Taiwan ETF (TWSE:0050), supporting both historical backtesting and live execution through a major brokerage API.
- Engineered a multi-source data pipeline (FinMind, TWSE, and Yahoo Finance APIs) with async price fetching, automated risk controls, state persistence, and Telegram alerts for full-cycle live trading operations.
- Developed a **Streamlit-based** frontend with interactive controls for strategy tuning, real-time performance charts (**Matplotlib**), and position dashboards, enabling rapid debugging and live monitoring of backtest and production signals.

Libroo: Social Reading Platform (Goodreads-style) **—** *React.js, FastAPI, MongoDB* Apr 2025 - Jun 2025

- Built a full-stack social reading platform using **React and FastAPI** with **RESTful** microservices for posts, social networking, and book clubs, optimizing **MongoDB** queries with pagination and async I/O to enable low-latency user interactions and scalable real-time feeds
- Integrated **Google Books and Open Library API**s for intelligent title search and enriched metadata, while implementing **Firebase OAuth 2.0 with JWT** for secure authentication, resulting in a seamless and modern user experience

EasyStore Event Registration System— *Python, JavaScript, HTML/CSS, PostgreSQL (Supabase)* Feb 2025 - Mar 2025

- Developed a full-stack event registration system using **Python** for EasyStore (E-commerce platform) with accessible UX, supporting 4 flexible form validation modes and enabling over **10K** user registrations with real-time status tracking
- Integrated image upload handling, Excel export with OpenPyXL, and **RESTful APIs with CORS** and session-based authentication, which streamlined admin event management while delivering a responsive UI