SOPHIA WANG

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EDUCATION

Northeastern University Vancouver, Canada   May 2025
Master of Computer Science   GPA: 4.0/4.0

Core Courses:||Algorithms & Data Structures in C || *Object-Oriented Design* || *Cloud Computing* || *Data Mining Techniques* ||
Computer Vision || *Web Development* || *Discrete* Math || *Human-Computer Interaction* || *Research Capstone* ||

New York University, New York, NY   May 2023
Master of Management and System (Specialization in Database Technology)   GPA: 3.915/4.0
Core Courses: || Strategic Management of Technology || Information Technology & Data Analytics ||
|| Managing in a Global Economy || Project Management in The Information Age || Database Design & Management ||

Fairfield University, Fairfield, CT   May 2020
Bachelor of Science in Finance, minor in Studio Art   Major GPA: 3.62/4.0

PROJECTS

ElektraFi, Vancouver, BC   January 2025 – Current
FinTech Gamification & Financial Engagement Project
- Researched Fintech competitors to identify strengths, weaknesses, and opportunities for **gamification** to boost user engagement.
- Designed the **"Tasks" page** using **Figma**, creating an intuitive interface for tracking financial challenges.
- Built **financial challenges**, such as the *30-Day Savings Sprint*, by extending ElektraFi's **frontend (TypeScript/TSX, SCSS)** and **backend (Node.js, Python)** codebase.
- Implemented the **frontend UI** and connected it to the backend, ensuring buttons and challenge interactions function properly.

Computer Vision-Enhanced Waste Sorting Assistant   Sep 2024- Dec 2024
Computer Vision Project
- Developed a computer vision-based waste classification system using YOLOv11, replacing Swin Transformer for better multi-class detection.
- Built a **real-time classification interface** with **Gradio**, providing visual waste identification and recycling recommendations.
- Designed a **Data Analysis Dashboard** to analyze waste trends and recycling rates using **CSV uploads**.
- Implemented the system with **Python, PyTorch, OpenCV, and Gradio**, enhancing accuracy and user engagement.

Kanbas Quizzes Feature Development   Aug 2024
Web Development & Learning Management System (LMS) Project
- Developed a **web-based Quizzes module** for *Kanbas*, a custom learning management system (LMS), enabling interactive assessments.
- Built **frontend UI with TypeScript (TSX) and SCSS**, creating an intuitive and responsive quiz management interface.
- Developed **backend APIs using Node.js and MongoDB**, handling quiz creation, authentication, and role-based access for **faculty and students**.
- Implemented **dynamic quiz features**, including multiple question types (**multiple choice, true/false, fill in the blank**), scoring, and attempt limits.

Mental Talk - Mental Health Support Application   May 2024 – Aug 2024
UX/UI Design & Interactive Prototype Development
- Architected "Mental Talk," a mental health platform connecting users with professionals through a privacy-focused mobile application using Figma.
- Integrated consultation scheduling, resources library, community forums, and AI-guided support features within an intuitive user interface.
- Analyzed mental health application market to identify accessibility gaps and crafted detailed user journey maps for streamlined navigation.
- Spearheaded comprehensive UX/UI documentation and interaction specifications in a five-person team, ensuring cohesive design implementation.

Ernst & Young, New York City, NY   January 2022 – June 2022
NYU Real World Course Experience
- Advise clients on how to repurpose, reinvent, and reposition typical urban commercial real estate for success if the predominant working arrangement for the company will be remote.
- Conduct financial evaluations and breakeven analysis and assessed data related to property, plant, and equipment costs.

WORK EXPERIENCE

East West Bank, Shanghai, CN   July 2018 – September 2018
Commercial Banking Intern
- Built and piloted a new performance management and impact assessment tool for senior management.
- Strengthened supervisors' acquisition decision-making by analyzing the ownership structures of potential targets and creating a usable list.
- Calculated discounted free cash flows over subsequent five years and conducted a sensitivity analysis to adjust asset values under various circumstances.

Bank of America Merrill Lynch, Shanghai, CN   July 2017 – September 2017
Wholesale Banking Technology Group Intern
- Helped the company bridge language and cultural barriers with colleagues in Hong Kong by using bilingual skills to serve as a liaison between branches.
- Compiled minutes of daily meetings to support regular progress checking from the customers.

Bank of East Asia- Hong Kong Corporate and Investment Bank, Shanghai, CN   July 2016 – September 2016
Operations Department Intern
- Boosted clients' strategic decision-making by analyzing their resources and characteristics.
- Prepared monthly updates for senior management on retail demand trends across geographic regions.
- Led quality control of operation reports from personal banking, corporate banking, treasury, and risk management department including data checking and proofreading.

SKILLS

Python ||Python || TypeScript (TSX) || Node.js || SQL || C || JavaScript || HTML & SCSS || PyTorch || OpenCV || Tableau || Google Analytics || Figma || Lingo || Advanced Excel (VLOOKUP) || Bloomberg Terminal