

SARAH HUANG

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EDUCATION

Software Engineering & Business, Western University & Ivey Business School September 2021 - April 2025

- Linamar Scholarship for Women in Engineering & Business (\$35,000)
- Western Scholarship of Distinction (\$3,500; 92%+ Entrance Scholarship)

SKILLS

- SOFTWARE**: Proficient in *Java, Python, JavaScript, HTML/CSS*; Intermediate proficiency in *TypeScript*
- FRAMEWORKS**: Proficient in *Git, Java FX, SQL, React, Node.js, npm*
- DESIGN**: Proficient in *Figma, Canva, & Adobe Creative Suite*
- PRODUCT**: Proficient with *Linear, Agile, & Looker*
- SPOKEN LANGUAGES**: Native proficiency in *English & Mandarin*, Intermediate proficiency in *French*

WORK EXPERIENCE

- Code Prompt Engineer**, Cohere May 2023 - present
- Managed **over 27 engineers** to establish a Code Review Pipeline and iteratively improved the pipeline's efficiency by corresponding with external vendors like **Scale AI** to mitigate blockers, resulting in a **319% output increase** in one week
 - Saw the Code Review Pipeline to completion by developing a linting and parsing script with Python to fold over 1500 hours worth of code-related conversations into model training
 - Scraped and parsed over **600,000 emails** using Python to train Cohere's Retrieval Augmented Generation model for corporate usage at **McKinsey & Company**
 - Developed the **front end** and implemented **back end data fetching** using React.js and Typescript in an internal full-stack application designed for employees to scan data quality on the go; completed in one week and pitched to Cohere's CTO
 - Collaborated in a team of 5 to ideate topics and author a company-wide Code Annotation Style Guide to ensure that **over 200 Data Quality Specialists** annotate code consistently to improve the company's chat model outputs
- Production Engineer**, Meta - MLH Fellowship June 2022 - present
- Developed and deployed an open-source portfolio website with Python, Flask, Jinja, MySQL, Nginx, Docker and unittest to ensure easy and **flexible redeployment** of code for future collaborators
 - Automated testing and deployment workflows using CI/CD, resulting in an **improved troubleshooting process**
 - Set up system and container monitoring, alerting, and visualization using Prometheus and Grafana to **optimize computer processing and memory usage** for repository collaborators
 - Completed 12 weeks of curriculum-based learning on core Production Engineering topics alongside Meta Engineers

PROJECTS

- MoodAF** - MetHacks, <https://github.com/sarahpei Huang/MoodAF> May 2023
- Developed a web application that analyzes emotions in journal entries using **Django & HTML/CSS**
 - Trained large language models to incorporate sentiment analysis using **Cohere API**'s classify and generate models
 - Implemented data fetching from the APIs onto the web application's interface as the primary frontend developer
- Baad Day** - MapleHacks, <https://github.com/sarahpei Huang/Baad-Day> March 2023
- Programmed an interactive game to help youth identify ER-level symptoms to reduce hospital wait times
 - Developed the front end with **HTML, CSS, and JavaScript** to create a user interface appealing to users aged 8-12
 - Applied problem-solving skills to debug 4 levels targeting: sleep, eating habits, stress management, and night routines
- 20 Past 4** - ElleHacks 2023, <https://github.com/sarahpei Huang/20-Past-4> February 2023
- Developed an interactive game rating the user responses to social situations involving marijuana with **Python & Cohere API**
 - Solo designed and programmed the game while analyzing user feedback to refine product appeal toward younger audiences
 - Won Organizer's Choice: Top 10 Hacks and Best use of Cohere API 3rd place
- Learning In Colour** - RBC Design Thinking Program, <https://youtu.be/FMHS3Yp4kG8> October 2022 - November 2022
- Developed a web application for racialized students to interact with BIPOC professionals through forums and blogs
 - Prototyped application interface for student users and club administrators on **Figma**
 - Created a slide deck on **Microsoft PowerPoint** to pitch the final product to Western faculty deans and RBC executives

EXTRACURRICULAR EXPERIENCES

- Logistics Organizer**, Hack Western March 2023 - present
- Collaborated in a team to organize food, events, and sponsorships for 400 hackers at one of Canada's largest hackathons
- Varsity Ultimate Athlete**, Western Women's Ultimate Team September 2022 - present
- Balanced 30 hours of weekly practice/tournaments with 31 hours of weekly lectures and labs to upkeep an 82% average