

SARAH HUANG

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EDUCATION

Software Engineering & Business, Western University & Ivey Business School

2025

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

SKILLS

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

WORK EXPERIENCE

Project Manager, Cohere

Aug 2023 - present

- Served as a liaison between over **200 Data Quality Specialists** and **Cohere's engineering team** to finetune the production of a convenient internal data annotation platform for Data Quality Specialists and managers, **improving noisy data quality by 16%**
- Spearheaded a **sprint to fulfill Oracle's P0 request** by synthetically generating over 1000 prompts and relaying instructions to over 30 Copywriters, resulting in a timely completion to satisfy all stakeholders
- Collaborated in a team of 5 to author a Code Annotation Style Guide to ensure that external vendors like **Scale AI** and **Invisible Technologies** provide quality data and code annotations to improve chat model training data
- Inaugurated a Vendor Evaluation Pipeline to **identify low-performing data vendor annotators** to ensure quality incoming data batches are up to standard, resulting in a **25% improvement over two weeks**

Production Engineer Fellow, Meta - MLH Fellowship

June 2023 - September 2023

- 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

Software Engineer, Cohere

May 2023 - Aug 2023

- Managed **27 engineers** to establish a Code Review Pipeline and improved its efficiency by developing scripts to fold over 1500 hours worth of training data and mitigating blockers with data vendors, yielding a **6% model improvement** in code generation
- Scraped and parsed over **600,000 emails** using Python to train Cohere's Retrieval Augmented Generation model for application at corporate clients through Cohere's chatbot assistant for enterprises, Coral
- Developed the **front end** and implemented **back end data fetching** using React.js and Typescript in an internal full-stack application designed to expedite the data quality sifting process; **completed in one week** and pitched to Cohere's CTO
- Learned Golang onsite to troubleshoot request errors in Cohere's APIs; efforts resulted in relevant data extraction for the Platforms Team to further **optimize popular endpoints** like Co.Generate and Co.Summarize

PROJECTS

MoodAF - MetHacks, <https://github.com/sarahpei Huang/MoodAF>

May 2023

- Developed a web application for distressed youth to analyze emotions in journal entries using **Django & HTML/CSS**
- Led a target demographic research sprint to cater relevant product features like the community analytics page to the user
- Implemented data fetching from API calls onto the web application's interface as the lead frontend developer

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 an application interface on **Figma**, adding functions based on common student and club administrator use cases
- Pitched the final product to RBC executives, Western's Vice-President of Equity, Diversity and Inclusion, and faculty deans

EXTRACURRICULAR EXPERIENCES

Logistics Organizer, Hack Western

March 2023 - present

- Collaborated with a team of 26 to organize food, events, and sponsors for 400 hackers at one of Canada's largest hackathons

Varsity Athlete, Western University Varsity 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