

Sarah Chiang

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Technical Skills

Programming Languages: C/C++, HTML/CSS, Java, JavaScript, Python, SQL, TypeScript, MATLAB, VBA

Frameworks: Angular, Next.js, Node.js, React, React Native, Tailwind CSS

Technologies: Docker, Supabase, Firebase, Auth0, Figma, Git, Linux/Unix, PostgreSQL, Jupyter Notebook, Google Colab, Anaconda, Pandas, NumPy, SciPy, Agile/Scrum

Education

Western University

Sept 2022 – May 2027

Honours in Computer Science

- Western Scholarship of Distinction (2022)
- **Coursework:** Data Structures and Algorithms, Sequential Programming, Object-Oriented Programming, Mobile Application Development, Operating Systems, Statistics, Calculus, Linear Algebra
- **Activities:** Association of Korean-Canadian Scientists & Engineers (Finance VP), Tech for Social Impact (Project Manager)

Experience

Alice-a-Bruxelles Interactive WebGL Experience

London, ON

Front-end & Unity Developer

May 2025 – Aug 2025

- Architected a modular **JavaScript integration** for **Unity WebGL** using `createUnityInstance`, coordinating **asynchronous asset loading** and **error recovery**.
- Developed **responsive canvas controls**—**dynamic scaling**, **fullscreen toggles**, and **custom loading banners**—to enhance cross-device user experience.
- Engineered **pixel-perfect layouts** with **HTML5**, **CSS3 Flexbox**, and **media queries** to seamlessly embed and style the Unity canvas within the site's design.

EmpowHERto

Toronto, ON

Project Manager & Full-Stack Developer

Feb 2025 – Present

- **Led a 4-member team** to develop a full-stack financial-literacy web app using **React**, **Supabase**, and **Auth0**.
- Integrated **Auth0 SSO** and built a secure **Supabase** backend with row-level access controls, streamlining login and data security while reducing custom-auth dev by **50%**.
- **Developed UI/UX** of core user modules (Dashboard, Income, Expenses, Saving Goals, Learning Resources, Points & Rewards), cutting UI defects by **90%** and improving load speed by **30%**.

London Health Sciences Centre

London, ON

Database Developer

May 2024 – Aug 2024

- Built a Python-based extraction pipeline using **pandas**, **spaCy** (`en_ner_bc5cdr`), and custom regex to parse unstructured clinical notes into structured fields.
- Implemented NLP functions for **date cleaning**, **age extraction**, **diagnosis matching**, **DMT (disease-modifying therapy) identification**, and **follow-up date** detection.
- Integrated a local LLM via **LangChain** (HuggingFacePipeline) to enhance extraction of diagnoses and follow-up instructions.
- Automated data ingestion and export: loaded new patient notes, appended extracted fields to the existing database, sorted/reset the index, and exported the updated spreadsheet.

iContribute

Ottawa, ON

Frontend Developer

Mar 2021 – Aug 2021

- Built a cross-platform app using **React Native** and **Firebase**, enabling 58+ partner organizations to connect with 1000+ active users for remote and in-person volunteer opportunities during the pandemic.
- Designed **15+** responsive UI components with **MUI** and **Figma**, improving **UI/UX** and gained 20+ weekly matches for volunteering.