ERIC XIAO

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ACADEMICS

Incoming Bachelor's in Computer Science at the University of Washington-Seattle	**Expected Graduation Date: 2025**
High School Diploma, Sir John A. Macdonald Secondary School	**Graduation Date: June 2021**

- Activities: Tech Under Twenty Chapter Leader, Mathletes, CS Club, Highlander Aerospace Club, Music Council

EXPERIENCE

Mitra Biotechnologies   **Waterloo, Ontario**
Chief Technology Officer, Software Engineering   *Aug 2020 - Present*

- Led the development of the Mitra Biotechnologies website, which includes advisor portals to help investors and SAB members support the company, using a **React and Firebase** tech stack—gained interest from **10 advisors** up-to-date.
- Mentoring software developers with debugging and new skill acquisition, reviewing code, delegating new tasks, updating other executives on progress, and organizing design/coding sprints, weekly stand-up meetings, and coffee chats.
- Interviewed and recruited a diverse cohort of applicants for software development during the summer of 2021.

Harled Inc.   **Waterloo, Ontario**
Software Engineer Intern   *Aug 2020 - Nov 2020*

- Worked within a team of **5** students to create a real-time flight-mapping web platform **from scratch** using the **MERN stack**.
- Developed flowcharts and **Figma** prototypes/mockups, and utilized **React and Leaflet.js** to create a flight map and dashboard.
- Worked with **external libraries and polylines** to map out geodesic flight paths for airplanes, and linked the **React** frontend to **Node.js** endpoints and a **MongoDB** database of flight information.

MyMotive   **Virtual**
Chief Technology Officer   *Jun 2020 - Oct 2020*

- Led the development of the company's MVP: a mobile app that allows users to host and attend RSVP-only events—finished within **2 months** and led beta testing afterwards.
- Developed a **React Native** frontend and utilized **Firebase** for authentication and storage, **Expo** for testing and deployment, and the **Uber Deeplink API** to allow users to get rides to event venues.
- Delegated tasks and led meetings within our development team, and communicated with the executives, investors, and business side of our team remotely about our progress.

PROJECTS

AirFlip - Javascript, Python, React, Tensorflow, Web Speech API

- A web application that helps users seamlessly swipe through PDF documents using **gesture detection** and **speech recognition**; won a **Finalist (top 17 projects) Award** at Hack the North 2021.
- Developed a **React** user interface that includes a PDF viewer and webcam video footage, and utilized the **Web Speech API** to flip the document after speaking key words.
- Linked the frontend with a **Tensorflow MoveNet** machine learning model that detects head gestures to flip the PDF.

CogniTalk - Python, Svelte, Flask, Firebase, Praat Parselmouth

- Developed a web platform that analyzes user audio responses to various interview questions and maps their performances on a table to view areas of improvement—won **Second Place at MasseyHacks VI**.
- Implemented a **Svelte** frontend and **Firebase APIs** for authentication and storing analytics of mock interview performances.
- Linked the user interface to a **Flask** backend server that runs a **Praat Parselmouth** audio analysis library to analyze recordings of mock interview responses.

TECHNICAL SKILLS

- **Programming Languages:** Python, Javascript, HTML, CSS, Java, Octave
- **Frameworks:** React, jQuery, Svelte, React Native, Processing, PyTorch, Flask, BeautifulSoup, Pandas, Node.js
- **Technologies:** Firebase, Figma, Google Cloud

HONORS & AWARDS

- Earned the Best Environmental/Social Good Hack Award at JAMHacks V.
- Made honour rolls (Group II) and earned Distinction Award (top 25%) for the 2020 CEMC Fermat Math Contest.
- Won fourth place in the 2019 ECOO-CS boardwide competition and third place in regionals, earning a spot to finals.