

# ERIC XIAO

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## ACADEMICS

Bachelor's in Computer Science, University of Washington-Seattle

Expected Graduation Date: June 2025

Relevant coursework: Java Programming and Data Structures, Foundations of Computing I, Software Design and Implementation

Cumulative GPA: 3.96

High School Diploma, Sir John A. Macdonald Secondary School

Graduation Date: June 2021

## EXPERIENCE

Eat Together

Seattle, United States

Development Lead

Feb 2022 - Present

- Leading the development of our MVP: a **React Native** mobile app that helps students organize and schedule food meetups.
- Contributed to **Figma** mockups of our app, created **database schemas**, **mentoring** other software developers with **debugging** and **new skill acquisition**, **reviewing** code, and reporting **development updates** to other members of the startup.
- Participating in occasional **entrepreneurship meetups and competitions** at the University of Washington to promote our company and product.

Grand River Chinese School

Waterloo, Canada

Olympiad Math Teacher

Sep 2018 - June 2021

- Taught a class of Grade 7 and 8 students various **Olympiad-level math** topics (e.g. combinatorics, analytic geometry).
- Contributed math problems to and proctored the 2018 and 2019 Nine Chapters on the Mathematical Arts Contest.
- Organized the school's **first ever** online lessons during the start of the COVID-19 pandemic (March 2020 to June 2020), and taught a class of **15** Grade 7 and 8 students online for the 2020-2021 school year.

Harled Inc.

Waterloo, Canada

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.

## 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.

Markov Chain Lyrics - Python, Flask, React, BeautifulSoup, Genius API

- Developed a web application that uses **Markov Chains** to generate lyrics from various song artists.
- Utilized the **Genius API** to obtain URLs to lyrics of popular pieces from an artist, and used **BeautifulSoup** to scrape these lyrics.
- Created a Markov Chain using **OOP in Python** to generate lyrics from previous words, and connected all aspects together using a **Flask** backend server and a **React** user interface.

## TECHNICAL SKILLS

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

## HONORS & AWARDS

- Earned the Best Environmental/Social Good Hack Award at JAMHacks V.
- Won Second Place at MasseyHacks VI.
- 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.