ERIC XIAO

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ACADEMICS

Bachelor's in Computer Science, University of Washington-Seattle **Expected Graduation: June 2025**
***Relevant courswork**: Data Structures, Intro to Algorithms, Software Design and Implementation* ***Cumulative GPA**: 3.95*

EXPERIENCE

Eat Together **Seattle, United States**
Co-founder/Development Lead *Feb 2022 - Present*

- **Co-founded** a student-run startup that aims to **improve the college socializing experience via food-related meetups**.
- **Leading** the development of a **React Native** mobile app that helps students organize and schedule meetups, which has gained **60+ beta testers** and helped organize **100+ meetups**.
- **Helping** other team members with **assigning** tasks, code and design **reviews**, **debugging**, and **app testing** sessions.
- **Pitched** Eat Together at the Dempsey Startup Competition, where we were selected as one of the **Top 36** teams (**out of 83**) that advanced to the Investment Round.
- **Achieved over $1500 in funding** via sources like the Husky Seed Fund.

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*

- Collaborated with a team of **5** students to create a real-time **flight-mapping** 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.
- Implemented **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

*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 **object-oriented programming in Python** to generate lyrics from previous words, and built a full-stack app using a **Flask** backend server and a **React** user interface.

TECHNICAL SKILLS

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

HONORS & AWARDS

- Earned the Best Environmental/Social Good Hack Award at JAMHacks V.
- Won Second Place at MasseyHacks VI.
- Won fourth place in the 2019 ECOO-CS boardwide competition and third place in regionals, earning a spot to finals.