ERIC XIAO

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ACADEMICS

Bachelor's in Computer Science, University of Washington-Seattle   **Expected Graduation: June 2025**

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

Cumulative GPA: *3.95*

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 and generated **database schemas**.

- **Mentoring** a group of **3** software developers with **debugging** and **new skill acquisition**, **reviewing** code, and **reporting** progress updates on behalf of the development team to founder and strategy team members.

- Helped pitch and promote our company 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.

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, TypeScript, Octave

- **Frameworks:** React, React Native, jQuery, Flask, BeautifulSoup, Processing, Node.js, Svelte, Sklearn, Pandas, PyTorch

- **Technologies:** Firebase, Figma, Google Cloud, Docker

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.