

# ERIC XIAO

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## ACADEMICS

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

Expected Graduation: June 2025

Relevant coursework: Data Structures and Algorithms, Software Design and Implementation, Systems Programming

Cumulative GPA: 3.93

## EXPERIENCE

### Amazon - Amazon One

Seattle, United States

Software Development Engineer Intern

June 2023 - Sep 2023

- Developing and architecting a **data pipeline** that generates daily Amazon One customer reports for partners and is **200% more efficient** than the current process.
- Utilizing **AWS Lambdas** and **Kinesis Firehose** to process and transfer the data to an **S3 bucket** while following industry-standard software development guidelines.

### Eat Together

Seattle, United States

Co-founder/Development Lead

Feb 2022 - Present

- **Spearheading** 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**.
- **Leading meetings** and **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 placed in the **top 36 teams (out of 83)**.
- **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, Java, Javascript, HTML, CSS, LaTeX, C/C++, TypeScript
- **Frameworks:** React, React Native, jQuery, Flask, BeautifulSoup, Processing, Node.js, Svelte, Sklearn, Pandas, PyTorch
- **Technologies:** Firebase, Google Cloud, AWS, Figma