

# ERIC XIAO

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## ACADEMICS

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

Expected Graduation: June 2025

**Relevant coursework:** Data Structures, Algorithms, Software Design and Implementation, Systems Programming, Foundations of Computing, Machine Learning, Introduction to Databases

**Cumulative GPA:** 3.93

## EXPERIENCE

### Amazon - Amazon One

Seattle, United States

Software Development Engineer Intern

June 2023 - Sep 2023

- Led the development of a **data pipeline** that generates daily Amazon One customer reports for **10+ clients** and is **200% more efficient** than the current process.
- Utilized **AWS Lambdas and Kinesis Firehose** to process and transfer HTTP request data to a **WorkDocs site** while following industry-standard software development guidelines.
- Completed all project milestones **a week before the end date**, and delivered a project presentation to **over 40 Amazon One stakeholders**.

### Eat Together

Seattle, United States

Co-founder/Development Lead

Feb 2022 - Present

- Spearheading a **cross-functional team of 8+** software developers, product designers, and business developers in developing a **mobile app** that helps students organize and attend food-related meetups.
- Overlooking the whole process, from ideation and market research to development and public launch, helping gain **70+ users and 30+ meetups during the first week of launch**.
- Leading meetings and assisting team members with sprint planning, 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 2023 Husky Seed Fund.

### 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, Next.js, Sklearn, Pandas, PyTorch

**Technologies:** Firebase, Google Cloud, AWS, Figma