

# Jason Zhang

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## Education

### University of Washington

June 2025

Computer Science B.S.

Seattle, WA

- 3.88/4.0 GPA
- Relevant Coursework: Algorithms, Hardware Software Interface, Data Structures and Parallelism, Systems Programming, Database Management, Data Visualization

## Experience

### Optum/Change Healthcare, Incoming AI Engineering Intern

June 2023 - Present

Healthcare AI

Nashville, Tennessee

- Incoming 2023 Summer AI Engineering Intern.

### University of Washington, Research Assistant

December 2022 - Present

Radiation Oncology NLP

Seattle, WA

- Used NLP to contextualize and analyze extensive biomedical data, including grant proposals, clinical notes, and safety reports.
- Applied state-of-the-art transformer models, and various supervised and unsupervised learning methods to medical data.

### Applied Hearing Science Lab, Research Assistant

December 2022 - Present

Self-fitting Hearing Aid Application

Seattle, WA

- Used React.js to develop accessible and dynamic UI for a novel self hearing aid fitting process.
- Applied fitting methods including matrix operations and PCA in pure JavaScript.
- Created a Node.js server hosted on OpenMHA firmware to serve React app and communicate with the hearing aid firmware and settings.

### Sportsbox AI, SWE Intern

July 2020 - September 2020

AI Golf Solution

Bellevue, WA

- Developed 3D humanoid kinematics and quaternion rotation techniques for displaying machine learning pose estimation.
- Integrated Unity as a Library on Android using C#, Java, and Kotlin.

## Events and Awards

### eBay ML Challenge 2022

November 2022

2nd place at eBay Competition

Seattle, WA

- Lead a team to place second place in the eBay ML Challenge 2022
- Trained robust NER models using transformers that classified various labels in product titles.

### Dubhacks '22 T-Mobile Track

October 2022

Most Marketable Award

Seattle, WA

- Won the Most Marketable Award by creating a Package Tracking Device using T-Mobile DevEdge IoT Developer Kit
- Wrote custom firmware code in C to collect and analyze data from various sensors.

### Jane Street ETC (Electronic Trading Challenge)

July 2022

Live simulated market making competition

Seattle, WA

- 1st place in "Final Hour" scoring: \$1.5k total cash prize awarded to our team.
- Created the best trading and market-making bot to generate the most profit each round in a simulated market.

## Projects

### Visualization: Turkiye-Syria Earthquakes

March 2022

A story told through data visualization

- Developed an interactive scrolling narrative visualization using React and D3.js
- Amplified the lesser-told story about the Turkiye-Syria Earthquakes that devastated the region in February of 2023.
- Constructed various animated maps, bar charts, and other visualization techniques. Won best overall presentation in UW CSE 442 Wi.

### Guipy

May 2022

A python UI open-sourced library

- Founded a pygames UI components library that allows users to quickly create graphical interfaces.
- Created automatic polishing and version tagging with GitHub Action.

### EHS Service

2020 - 2023

Eastlake Community Service Tracker Project

- Maintained a live web service used by over 400 active students at Eastlake High School and officially endorsed by LWSD school district.
- Enabled students of Eastlake Key Club to easily view, edit, and log their service hours in compliance with school requirements.

## Technologies

- **Languages:** C++, C#, Java/Kotlin, SQL, Python, Rust, JavaScript, TypeScript.
- **Data Science:** Transformers, Hugging Face, PyTorch, Pandas, NLTK, scikit-learn.
- **Web Dev:** Node.js, React.js, Next.js, Tailwindcss, D3.js, Vega-Lite.
- **Misc:** Unity, Git, GitHub, Firebase