

Jason Zhang

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Education

University of Washington

Computer Science B.S.

- 3.84/4.0 GPA
- Relevant Coursework: Algorithms, Hardware Software Interface, Data Structures and Parallelism, Systems Programming, Database Management, Data Visualization, Machine Learning, Natural Language Processing

May 2025
Seattle, WA

Experience

Vial

Software Engineer Intern

- Led various projects as an intern developing multiple key features deployed to production.
- Migrated the user management system to Terraform and created automated pipelines for deployment.

April 2024 - Present
Remote

Optum

AI Engineering Intern

- Facilitated the upload of millions of electronic health documents using AWS Serverless Application Model Stack.
- Designed and deployed data pipeline using AWS SAM, Cloud Formation, S3, Lambda, and EventBridge.

June 2023 - September 2023
Remote

University of Washington

Research Assistant

- 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.

December 2022 - August 2023
Seattle, WA

Applied Hearing Science Lab

Research Assistant

- Collaborated with UI Designers to seamlessly integrate impactful and user-friendly interfaces.
- Used React.js to develop accessible and dynamic UI for a novel self hearing aid fitting process.
- Created a Node.js server hosted on OpenMHA firmware to serve React app and communicate with the hearing aid firmware and settings.

December 2022 - August 2023
Seattle, WA

Events and Awards

eBay ML Challenge 2022

2nd place at eBay Competition

- 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.

November 2022
Seattle, WA

Dubhacks '22 T-Mobile Track

Most Marketable Award

- 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.

October 2022
Seattle, WA

Jane Street ETC (Electronic Trading Challenge)

Live simulated market making competition

- 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.

July 2022
Seattle, WA

Projects

Visualization: Turkiye-Syria Earthquakes

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.

March 2022

Guipy

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.

May 2022

Technologies

- **Languages:** C++, C#, Java, Python, Rust, JavaScript, TypeScript.
- **Cloud:** GCP, Terraform, Azure SQL Database, AWS Lambda, AWS S3, AWS EventBridge, AWS Cloud Formation
- **Data Science:** Transformers, Hugging Face, PyTorch, Pandas, NLTK, scikit-learn.
- **Database:** PostgreSQL, SQLite, Firebase Firestore.
- **Web Dev:** Node.js, React.js, Next.js, Tailwindcss, D3.js
- **Misc:** Unity, Git, GitHub Actions, Docker, Unix, Figma
- **Media:** Adobe Photoshop, Adobe Lightroom, Adobe Premiere Pro, Davinci Resolve