

# Andrew Nakamoto

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## EDUCATION

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### University of Washington

Seattle, WA

Bachelors of Science in Computer Science; GPA: 4.00 - Dean's List

Sep. 2022 – Jun. 2025

Minor in Mathematics

- CSE 446: Machine Learning, CSE 447: NLP, and CSE 333: Systems Programming.
- CSE 332: Data Structures and Parallelism and CSE 331: Software Design and Implementation.
- MATH 318: Advanced Linear Algebra Tools and Applications and CSE 312: Foundations of Computing II.

## EXPERIENCE

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### DubHacks

dubhacks.co

Executive Director

February 2023 - Present

Organized and managed DubHacks 2023, the largest hackathon in the PNW. Directing the 2024 event for over 1000 projected participants and industry professionals, leading a team of 20 designers and engineers, and handling \$50k+ annual budget. Both project managing and personally implementing our tech stack, using SQL, React, Kubernetes, Docker, and Google product APIs. Overseeing DubHacks Next, our startup incubator and entrepreneurship program.

### UW Allen School

Mobile Intelligence Lab

Research Assistant

January 2024 - Present

Researching optimization techniques for machine learning using Swift, PyTorch, and Onnx with mentor Shyam Gollakota in the Mobile Intelligence Lab for noise-cancelling applications. Our system of neural nets automatically identifies characteristic speech traits from target voices in noisy environments, then cancels non-target noise in binaural audio. Working to make the system lightweight and integrate it into an iOS app.

### CSE Student Advisory Council

UW Allen School

Officer

November 2022 - Present

Building faculty-student relationships on the Faculty Interfacing team with data science and student surveys. Working as a software engineer on a technical project to update the Tribute Wall for the Allen School.

### POST84

post84.org

Head of Finance

November 2019 - September 2022

Overhauled the annual budget in the wake of a \$30k loss during the pandemic, raising and managing over \$120k in revenue for a net \$40k gain during 2021-2022 school year. Led the team that planned and executed the \$70k 2022 annual gala fundraiser and presided as auctioneer during the keynote event of the evening.

### Simulated Immersive eXperiential Realities

sixr.tv

Intern

June 2021 - August 2021

Programmed and modeled an interactive VR concept for a client proposal with a team. Demo video on GitHub.

### National Park Service

NPS.gov

Intern

June 2021 - August 2021

Collaborated with NPS officials to find creative, innovative ways to engage youth with the outdoors.

## PROJECTS

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**WikiViz:** Built an application that visualizes Wikipedia topics as an interactive graph using a depth-first recursive word-prevalence PageRank algorithm. Used Java, JSoup, and JUNG. Demo video on GitHub.

**Campus Paths:** Built a webpage using React that implements Dijkstra's algorithm to find the shortest path between locations on campus. Computation is run serverside and GSON is used to send the path to the webpage. Used Java, Typescript, JSON, GSON, React framework, and HTML.

## SKILLS & PASSIONS

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**Languages & Tools:** Java, Python, C/C++, HTML/CSS, TypeScript, JavaScript, React, Node.js, PyTorch, Git.

**Passions:** Machine learning, data science, linear algebra, multivariable and matrix calculus, NLP, system design.

**Hobbies:** Camping/hiking, outdoor conservation, nonprofit management and community engagement, guitar. Ask me about my favorite tarp shelters!