

Simon Dao

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Education

University of Washington

Dec 2025

Bachelor of Computer Science, Minor in Data Science, Vice president of ACM Club, Member of Trickfire Robotics

SKILLS

Languages: Java, Python, C, C++, ARM Assembly, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, JUnit, Material-UI, Arduino, ROS

Developer Tools: Google Cloud Platform, S3, EC2, AWS, Git, GitHub, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Figma

Libraries: Pandas, NumPy, Matplotlib, OpenCV, JUnit

EXPERIENCE

Software Engineering Intern

Jun. 2024 – Aug. 2024

Lexxify Inc

- Designed and implemented a multilingual keyboard using **React**, supporting **100+ languages** to enhance global accessibility.
- Modified the **GraphQL** database and implemented new **API routes** to improve support for this new keyboard

Vice President

Dec. 2022 – Present

Association for Computing Machinery Club (ACM)

- Organized the largest academic event on campus with **350+ participants** and am driving efforts for an even larger event this year
- Collaborated with industry leaders, including Microsoft, Avande, and others, to secure sponsorships and guest speakers
- Overhauled club operations, create a surge in club events of **40+ participants** from **4** times a year to **12**.
- Led and managed a team of **25+ officers**, ensuring smooth coordination and execution

Data Science Intern

Mar. 2022 – Oct. 2023

University of Washington Office of Admissions

- Redesigned and implemented web portals used by **8000+ admitted students**, improving user experience
- Created visualizations from large datasets for admissions staff using **Python**, **Matplotlib**, **Numpy**, and **Pandas**.
- Spotted and fixed **1000+ inconsistencies** in student records in the student database, improving database accuracy
- Compiled **100+ reports** on student data for admissions officers and other admissions staff using **SQL** queries

Data Science Intern / Teaching Assistant

Sep. 2023 – Jun. 2024

Computing for All

- Saved each instructor **20+ minutes** a day of manual work by automating the attendance system using **JavaScript** and **Rest APIs**
- Overhauled the faulty student database schema, enhancing data accessibility for staff
- Developed and taught lessons on web development fundamentals to cohorts of **20 students**

Projects

UWB Hacks Website | TypeScript, React, Express.js, Node.js, RDS (AWS), SQL

- Led a team of **7 developers** to create a website and participation tracking system, for a hackathon with **500+ participants**

PlanPal | TypeScript, React, Express.js, Node.js, WebSocket, RDS (AWS), SQL

- Developed a user-friendly web-based scheduling tool to simplify group coordination and availability tracking
- All scheduling data is stored in an **AWS** RDS instance

Pathfinding Algorithm Visualizer | JavaScript, React, Algorithms, EC2 (AWS), Amplify (AWS)

- Built a React app to visualize path-finding algorithms, including **Dijkstra**, **BFS**, **DFS**, and **A-Star**
- Deployed front-end via **AWS Amplify** and back-end with Node.js on an **EC2** instance

Automated Sentry Turret | 3d Printing, WebSocket, Python, OpenCV, Raspberry Pi

- A small 3d printed sentry turret that automatically recognizes and points at human faces
- Integrated **Python OpenCV** for facial recognition on the **Raspberry Pi**
- Established a remote control mechanism using **Socket-IO**, enabling operation from a connected computer