

Simon Dao

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EDUCATION

University of Washington

Bachelor of Science, Computer Science

Expected Graduation: June 2026

Coursework: Data Structures and Algorithms, Networking, Database Systems, Object-Oriented Java Programming, Neural Networks, Hardware, and Computer Architecture

Activities: Vice President – Association for Computing Machinery (ACM), Software Team – Trickfire Robotics

EXPERIENCE

Smart City Research Lab | Software Engineering Intern | Bamberg, Germany

June 2025 – August 2025

- Delivered real-time mobility data that enabled the city to optimize construction schedules and reduce traffic disruptions.
- Built and deployed a **Kubernetes**-based data platform for real-time urban mobility analytics.
- Built custom **ETL** connectors to integrate real-time cycling, bus, and transit data into the system.
- Built a secure **Java Spring** API gateway with **OAuth 2.0** and HMAC verification to protect internal microservices.

Association for Computing Club | Vice President | Bothell, WA

Jan 2023 – June 2025

- Served as lead technical manager for the chapter's 2025 hackathon: "UWB Hacks: Save the World."
- Boosted annual event count from **4 to 15** by restructuring officers into focused, agile sub-teams.
- Led the club to win '**2025 Academic Club of the Year**' and '**2025 Event of the Year**' awards.

Lexxify Inc | Software Engineer Intern | Remote

June 2024 – September 2024

- Expanded access to 100 countries by adding a multilingual keyboard to the Lexxify App using **TypeScript** and **React**.
- Create unit and integration tests to validate multilingual input handling and keyboard functionality with **Jest**.

Computing for All | Software Engineering Intern | Seattle, WA

September 2023 – June 2024

- Migrated and restructured student/faculty database on **Azure SQL**, building interactive **Power BI** dashboards with enrollment metrics and program outcomes that enabled data-driven sponsorship pitches.
- Saved 9 instructors 40 hours of work monthly by automating the attendance system using **JavaScript** and **REST APIs**.

University of Washington Office of Admissions | Data Science Intern | Bothell, WA

March 2023 – October 2023

- Developed machine learning models (logistic regression, decision trees) to predict student enrollment probability from 15+ features, improving yield forecasting accuracy by 13%.
- Saved admissions officers **1 hour/day** by creating interactive **Tableau** dashboards that automated complex applicant data queries and visualized enrollment trends across 15+ recurring reports.
- Improved user experience for **8,000 admitted students** by modernizing student web portals using **HTML** and **CSS**.

PROJECTS

UWB Hacks 2025 website – uwbhacks.com

- Led the development of a full-stack hackathon platform with real-time participant tracking, event scheduling, and prize management for **600+ attendees**.
- Managed a cross-functional team of 7 developers using Agile methodology with weekly sprints to deliver on an aggressive 7-week timeline.
- Designed a PostgreSQL schema to manage authentication, QR check-ins, and prize redemptions for **600+ attendees**.

TheLazyVoter – [Github](#)

- Built a **TypeScript/Next.js** web app to display political campaign data using web-scrapers and public **APIs**.
- Integrated an **AI** chatbot to summarize politician profiles and answer user questions using the **OpenAI API**.
- Displays politician stances on key topics using a custom NLP model hosted on AWS Lambda for real-time analysis.

Supervised Neural Networks – [Github](#)

- Developed neural network models from scratch using only **Python** and **NumPy**.
- Supports **feedforward networks** and **convolutional networks**.
- Achieved 99% classification accuracy on the **MNIST dataset** with both feedforward and convolutional models.

SKILLS

Programming Languages: C++, Java, JavaScript, Python, SQL

Technologies/Frameworks: AWS S3, EC2, MySQL, SQLite, React, Node, Git, Docker, Microsoft Office

Concepts: Agile, DevOps, REST, Distributed Systems, Relational Databases, Machine Learning