

Yufei Zhang

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EDUCATION

University of Washington

Master of Science in Computer Science

Seattle, WA

Expected Dec 2026

University of Washington

Bachelor of Science in Computer Science

Seattle, WA

Expected Dec 2025

EXPERIENCE

LinkedIn

Software Engineer Intern, Productivity Engineering

Sunnyvale, CA

June 2025 – Sep 2025

- Deployed to production a cloud cost optimization dashboard, becoming the **company-wide entry point for Azure efficiency insights** across **\$100M+ annual spend**.
- Built backend services in **Python/MySQL** to fetch real-time Microsoft Cloudfit efficiency recommendations, optimized with multi-table joins, caching, and schema validation.
- Developed frontend features in **TypeScript/React** with Grafana-powered historical spend trends and actionable cost-saving recommendations.
- Integrated frontend and backend via **gRPC**, eliminating REST middleware, reducing latency, and establishing a scalable pattern for future tools.

Paul G. Allen School of Computer Science & Engineering

Teaching Assistant, CSE 446/546 Machine Learning

Seattle, WA

Dec 2024 – Present

- Supported a joint undergraduate/graduate course on **machine learning algorithms and applications**, covering supervised/unsupervised learning, regression, classification, deep learning, kernel methods, and optimization.
- Taught **4 sections (35 students each)** across multiple quarters; designed and delivered content with annotated slides, live-coded demos, and original problem sets in **Python, NumPy, Scikit-learn, and PyTorch**.
- Led weekly **50-minute recitations** and office hours and collaborated with faculty and TAs on **grading, exam design, and assignment development**.

Amazon

Software Development Engineer Intern, Selection and Catalog Systems

Seattle, WA

June 2024 – Sep 2024

- Developed a **FilterAnalyticsTool pipeline** using **AWS CDK** to provision infrastructure with **S3, DynamoDB, and SQS** for managing duplicate product listings, logs, and reports.
- Implemented a **Java Lambda function** to process product pairs and generate validation logs, and a **Python Lambda function** for analytics and Jupyter-based reporting.
- Automated duplicate listing validation with an **SQS Queue and QueueProcessor**, reducing manual on-call investigation time by **80%**.
- Improved duplicate product merge accuracy by **15%** and reduced data errors by **50%** through validation checks and automated analytics generation.

Neural Systems Laboratory, UW CSE

Student Researcher, Neural Decoding Models

Seattle, WA

Dec 2023 – May 2025

- Contributed to scaling law research for neural decoding models from millions to billions of parameters using **AutoLFADS** and **Neural Data Transformers (NDT 1/2)**.
- Preprocessed large-scale datasets (e.g., IBL) and built training pipelines in **PyTorch** with **Hydra**.
- Evaluated model generalization across scales to guide architectural and training decisions.

University of Washington, College Of Engineering

Full-Stack Web Developer

Seattle, WA

Feb 2023 – Dec 2023

- Developed a scholarship app with **PHP, Laravel, and Filament**, serving 8,000+ visitors and increasing engagement.

LEADERSHIP

Computing Community @ UW (Association of Computer Machinery (ACM))

Executive Officer - Social Event Coordinator

Seattle, WA

Sep 2022 – Sep 2024

- Organized and managed **large-scale technical and social events** for **1,000+ students**, coordinating **timelines, tasks, and budgets** for the **largest student organization** in the Paul G. Allen School of Computer Science and Engineering.
- Led department-wide events such as **Fall Fest** and **Winter Ball**, achieving **500+ attendees**; spearheaded committees for **research nights, social events, and mentorship programs**.

AWARDS

- 2025 Allen Institute of AI (AI2) Outstanding Engineer Scholarship Finalist**
- 2022 National Honorable Mention**, National Center for Women & Information Technology (**Top 10% of 3,700 applicants**)

COURSEWORK

Machine Learning, Deep Learning, Natural Language Processing (NLP), Systems for Machine Learning, Distributed Systems, Systems Programming, Quantum Computation, Probability & Statistics, Data Structures & Algorithms, Software Design & Implementation, Hardware-Software Interface, Security, Quantitative Statistics, Advanced Linear Algebra, Multivariable Calculus