

# 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

Sunnyvale, CA

Software Engineer Intern, Productivity Engineering

*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

Seattle, WA

Teaching Assistant, CSE 446/546 Machine Learning

*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

Seattle, WA

Software Development Engineer Intern, Selection and Catalog Systems

*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

Seattle, WA

Student Researcher, Neural Decoding Models

*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

Seattle, WA

Full-Stack Web Developer

*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))

Seattle, WA

Executive Officer - Social Event Coordinator

*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