

QIYUAN QIU

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EDUCATION

University of Washington

Seattle, WA, USA

B.S., Applied and Computational Mathematical Sciences (Discrete Math and Algorithms)

Expected Jun 2026

- Cumulative GPA: 3.60 / 4.00
- Relevant coursework: Machine Learning, Neural Networks, Data Visualization, Discrete Mathematics, Optimization, Probability, Linear Algebra, Calculus Series, Modeling, Programming Languages

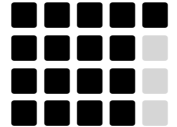
TECHNICAL SKILLS

Python

OCaml, C/C++, Java

LaTeX, SQL, HTML/CSS

PyTorch, Numpy, Pandas, Matplotlib



PROJECTS AND COURSEWORK

Neural Networks for Engineering and Science (PHYS 417)

UW, Spring 2025

Student Project

2025

- Used Transformer-based deep learning model to classify high-energy jets from the LHC into five categories (gluon, light quark, W/Z boson, top quark), achieving 77.1% validation accuracy. Explored particle-level feature extraction and combined deep models with random forest classifiers.

Machine Learning (CSE 416)

UW, Spring 2025

Team Kaggle Project (4th place)

2025

- Built a classifier to predict course completion from MOOC behavior and demographics using Pandas, scikit-learn, and decision tree ensembles. Tuned hyperparameters with GridSearchCV; model achieved 95.3% accuracy.

Data Visualization (CSE 412)

UW, Winter 2025

Individual Coursework

2025

- Designed interactive dashboards using Vega-Lite and Observable; visualized complex datasets including climate change and global indices.

Artificial Intelligence (CSE 415)

UW, Autumn 2024

Team Project

2024

- Built a search-based agent for pathfinding and puzzle solving using BFS, A*, and game-tree pruning.

EXPERIENCE

MassMutual Northwest

Seattle, WA, USA

Winter Intern L1

Jan 2025 – Feb 2025

- Conducted market analysis on Chinese and U.S. stock markets in a collaborative research environment.
- Co-developed a quantitative project tracking performance of a selected stock over a 20-year history.

China Mobile

Nanchang, China

AI/ML Intern

Jul 2025 – Present

- Collaborated with China Rare Earth Group and Prof. Yuxuan Liang (HKUST GZ) to develop domain-specific large language models (LLMs) for internal knowledge Q&A and staff training, achieving over 80% accuracy.
- Contributed to time series forecasting models for predicting rare earth price fluctuations, enhancing decision-making and risk assessment for the client.
- Participated in full-cycle development including data preprocessing, model training, and internal deployment for enterprise applications.

Misc.

- Dean's List (6 quarters)
- Languages: Native Mandarin Chinese; Conversational Cantonese and Japanese; Fluent English
- Public Relations Member, Technology and Business Association (RSO), UW (Mar 2024–Present): Managed and invited speakers for multiple professional events, each attended by over 200 students and professionals.
- Open to research and graduate study in machine learning, modeling, and algorithms.