

QUELLA WANG

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EDUCATION

Northeastern University

Bachelor of Science in Mathematics and Computer Science, GPA: 3.96/4.00

Boston, MA

Expected, June 2026

Honors: Dean's List 2023-2025, Cum Laude Society, Frank Prentice Rand 1908 History Prize

Courses: Object-Oriented Design, Machine Learning and Statistical Learning Theory, Computer Systems, Statistics and Stochastic Processes, Algorithms and Data, Artificial Intelligence

Activities: Northeastern University Symphony Orchestra (NUSO) Violin 2, José Mateo Ballet Theatre YDP Level V, Graduate Student Data Club, MathEMA Mentor, Math Club

SKILLS

Technical Experienced in Python, C, Java, Javascript, MATLAB, SQL programming, L^AT_EX, Git

Libraries React.js, Flask, PyTorch, Plotly, Pandas, NumPy, Sklearn, Seaborn, Node.js

Language Fluent in German, Cantonese; conversational in speaking Mandarin

EXPERIENCE

Math Department, Northeastern University

Graduate Research Project: Brain CT Image Hemorrhage Segmentation

June 2024 - Present

- Designed and optimized scalable ETL pipelines using Python and SQL, improving data ingestion and transformation for large-scale medical datasets.
- Developed and integrated machine learning models for real-time image analysis, enhancing segmentation accuracy through feature extraction techniques such as GLCM (Gray Level Co-occurrence Matrix).
- Documented software architecture & data workflows to support team collaboration & long-term maintainability.
- Collaborated in a cross-functional team to implement automated processing workflows, increasing computational efficiency and reproducibility.

Khoury College of Computer Sciences

Teaching Assistant – CS3000: Algorithms & Data Structure

January 2025 - Present

- Led weekly problem-solving sessions, explaining advanced algorithmic concepts such as graph theory, dynamic programming, divide and conquer, and NP-completeness to over 200 students.
- Provided one-on-one tutoring and debugging support in Python, Java, and C++, helping students implement efficient algorithms for real-world problems.
- Developed Python-based visualizations to demonstrate key algorithmic principles, enhancing interactive learning experiences.
- Liaison between students and Khoury administration, advocating for curriculum and resource improvements.

Northeastern University Student Government Association (SGA)

December 2023 - Present

Voting Student Representative, University Undergraduate Curriculum Committee (UUCC)

- Analyzed and proposed curriculum changes impacting over 16,000 students, advocating for modernized CS & DS core requirements to reflect industry needs.
- Presented data-driven insights to faculty-led committees, ensuring evidence-based decision-making for academic improvements.

Jane International Trading LLC, Analytics Intern

June 2022 - December 2023

- Developed interactive dashboards using Python, Pandas, and Matplotlib, enabling real-time data visualization for business intelligence.
- Automated data pipelines, reducing manual reporting efforts & improving decision-making efficiency by 30%.
- Managed data-driven trade analysis supporting international clients, contributing to over \$600,000 in transactions.

LEADERSHIP

Oasis, Director of Resources

May 2024 - Present

- Created comprehensive resources for workshops on web development and backend systems.
- Organized and led technical development workshops, fostering a collaborative environment for peer learning & mentorship.

- Represent Northeastern University as 1 of 2 delegates in a coalition of student governments from 30+ colleges in Boston.
- Advocate for the interests of over 150,000 college students in areas like housing, transportation, student rights.

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- Designed and led development workshops available to all students, fostering skill development.
- Contributed strategic insights and long-term planning in executive board meetings.