QUELLA WANG

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EDUCATION

Northeastern University   **Boston, MA**
Bachelor of Science in Mathematics and Computer Science, GPA: 3.96/4.00   Expected, December 2026
Honors: Dean's List 2023-2025, Cum Laude Society, Frank Prentice Rand 1908 History Prize
Fellowship: PEAK Summit Fellowship, PEAK Shout It Out, Nebraska Conference for Undergraduate Women in Mathematics
Courses: Computer Systems, Financial Derivatives, Object-Oriented Design, Machine Learning & Statistical Learning Theory, Statistics & Stochastic Processes, Algorithms and Data, Artificial Intelligence
Activities: Northeastern University Symphony Orchestra (NUSO) Violin I, José Mateo Ballet Theatre YDP Level V, Graduate Student Data Club, MathEMA Mentor, Math Club, HackBeanpot Core Tech Team

SKILLS

Technical Experienced in Python, R, C, Java, JavaScript, Golang, SQL, SML, $\LaTeX$, Git, Bash, Relational Databases

Libraries React.js, Flask, Tensorflow, PyTorch, Plotly, Pandas, NumPy, Sklearn, Seaborn, Node.js
Language Fluent in German, Cantonese; conversational in Mandarin

EXPERIENCE

Travelers Insurance – Data Engineer (Co-op)   January 2026 - Current
- Building policy search & analytics tools backed by Snowflake, enabling fast & reliable querying over large-scale insurance policy data.
- Designing & optimizing SQL-based data models and queries, leveraging Snowflake Cortex to support intelligent search and semantic retrieval use cases.
- Developing Node.js backend application to expose data services and integrate search functionality with downstream tools and user-facing workflows.

NIKE, Inc. – Software Engineering Intern   May 2025 - September 2025
- Migrated HR data workflows from Snowflake + Airflow to Databricks (deployed via Jenkins), improving scalability and reducing compute costs across the data lake.
- Developed and optimized Python/PySpark/SQL pipelines for high-volume datasets, streamlining ingestion and transformation for faster analytics.
- Designed and documented SFTP common utilities (upload/download/validation) adopted across workflow pipelines, improving reliability and developer efficiency.
- Enhanced data validation, schema design, and unit testing practices to ensure ETL integrity, preventing downstream pipeline failures.
- Partnered with product managers, DevOps, and QA in an agile environment (sprint planning, retrospectives, standups) to deliver robust data engineering solutions.
- Strengthened professional collaboration by incorporating extensive peer review feedback and driving process improvements that improved code quality and knowledge sharing.

Zeta Surgical – Graduate Research: Brain CT Image Hemorrhage Segmentation   June 2024 - May 2025
- 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 – DA5030: Machine Learning & Data Mining   September 2025 - December 2025
        CS3500: Object-Oriented Design   May 2025 - August 2025
        CS3000: Algorithms & Data Structures   January 2025 - May 2025
- Led weekly problem-solving sessions, explaining advanced algorithmic concepts such as graph theory, dynamic programming, divide & conquer, and NP-completeness to over 200 students.
- Led discussions and mentoring sessions focused on essential software design patterns such as Observer, Decorator, Adapter, and Model-View-Controller (MVC), helping students architect more modular, maintainable codebases.