

BROOKLYN ZHU

brooklynxzh@gmail.com • (206) 422-0726 • www.linkedin.com/in/brooklynzhu

SUMMARY

Highly driven individual with a passion for trading and financial markets. Skilled in quantitative analysis, excellent mental arithmetic, and programming. Thrives in high-pressure environments, demonstrating a competitive spirit, creative problem-solving, and a strong work ethic through collaborative and leadership roles.

EDUCATION

University of Washington, Paul G Allen School of Computer Science

B.S. Computer Science, Minor in Computational Finance June 2024

- **Relevant Coursework:** Introduction to Trading Systems, Discrete Probability, Statistics, Calculus, Differential Equations, Options & Derivatives, Statistical Reasoning, Introduction to Financial Markets, Data Structures & Algorithms
-

EXPERIENCE

Software Engineer Intern | Python, JavaScript, AWS June – August 2023

Liberty Mutual Insurance Group (*Investments Team*) Boston, MA

- Boosted scoring model precision by 17% through regression analysis and error metrics, enhancing data driven decision making in a fast-paced environment.
- Ensured scalable AWS cloud infrastructure to support rapid deployment and optimize performance.
- Streamlined data ingestion pipelines by 24%, enabling quicker access to critical information
- Optimized AWS Step Function by integrating JSON payloads, applying data aggregation and transformation methods for efficient processing.

Software Engineer Intern | Java, CSS, SQL, Angular, TS June – Sept 2022

Liberty Mutual Insurance Group (*Global Risk Solutions Team*) Seattle, WA

- Built a client-facing Java and Angular application, supporting 1000+ active users with real-time company policy changes and updates.
 - Designed and implemented RESTful API endpoints, user interfaces, and SQL database configurations, reducing data retrieval times through query performance profiling.
 - Architected a high-performing database with stored procedures and functions, using data normalization and indexing, deployed via Liquibase in a SpringBoot application.
-

TECHNICAL SKILLS

- **Languages:** Python, R, SQL, Java, Go, JavaScript, TypeScript, CSS, HTML, Bash (Linux)
- **Tools:** Excel, VBA, MATLAB, Pandas, MongoDB, Git, Docker, Jira, React, SpringBoot, LaTeX
- **Quantitative Skills:** Big Data Analysis, Regression Analysis, Probability Models, Statistical Analysis, Risk Modeling, Decision Trees, Pricing Models