Qianhao Fan

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EDUCATION

Northeastern University, Khoury College of Computer Science   Seattle, Washington, United States
Align Master of Science in Computer Science (GPA: 4.0/4.0)   Sept. 2023-Mar. 2026
- **Core Courses:** Object-Oriented Design, Data Structures and Algorithms, Foundations of Software Engineering

University of Washington, Department of Applied Mathematics   Seattle, Washington, United States
Master of Science in Computational Finance and Risk Management (GPA: 3.7/4.0)   Sept. 2021-Dec. 2022
- **Core Courses:** Computational Methods for Data Analysis, Machine Learning for Finance

Fudan University, School of Management   Shanghai, China
Bachelor of Science in Statistics (GPA: 3.45/4.0)   Sept. 2016-June 2020
- **Core Courses:** Machine Learning, Linear Algebra, Time Series Analysis, Python Programming
- **Scholarship:** 2019 University-level 3rd Class Academic Scholarship (top 25%)

PROFESSIONAL EXPERIENCES

Ping An Technology (Shenzhen) Co., Ltd.   Shanghai, China
Quantitative Investment Intern   Mar. 2020-Aug. 2020
- Automated data management tasks using Python scripts and maintained MySQL databases to support factor analysis.
- Developed an interactive interface for linear model data input, significantly enhancing stock selection strategies.
- Implemented portfolio analysis in Python, managing a $400 million fund using Brinson and Lasso regression models.

China Hedge Fund Research Center   Shanghai, China
Research Assistant Intern   June 2019-Oct. 2019
- Collaborated in the development of Python software for a hedge portfolio, achieving a 300% return over a 12-year period.
- Analyzed U.S. small-cap stocks using Python, culminating in the presentation of key insights to an audience of 500.
- Assisted in research on China's national debt return using SQL for data analysis, contributing to a published article.

China Pacific Insurance (Group) Co., Ltd   Shanghai, China
Big Data Research Assistant Intern   April 2019-June 2019
- Developed a Python-based template to automate data analysis and reporting in Excel, significantly boosting efficiency.
- Used SQL to extract key insurance data, applying it in generalized linear models for claim payment analysis.
- Optimized data processing pipelines by integrating Python and SQL to improve data flow and system reliability.

PROJECT EXPERIENCE

Intelligent Scheduler App   June 2023-Sept. 2023
- Led a team project developing an Intelligent Scheduler App using Python for enhanced personal task management.
- Implemented real-time conflict detection for input schedules and intelligent algorithms recommending free time slots, leveraging Python libraries such as NumPy and Pandas for data handling.

Financial Factor Analysis Tool   Nov. 2021-Jan. 2023
- Designed a Python application to extract financial data from the Wind Financial Terminal, focusing on essential factors.
- Implemented a module to calculate expected returns of selected stocks using historical data, employing statistical methods.
- Included functionality to visualize data trends over time using Python's Matplotlib library, aiding in easy interpretation.

FIFA Player Clustering Analysis   Mar. 2020-April 2020
- Developed a Python application using pandas and scikit-learn to cluster FIFA football players based on ratings.
- Visualized player clusters and attributes using Matplotlib, enhancing data interpretability and user engagement.
- Implemented an interface in the Python application for enhanced customizable clustering analysis.

EXTRACURRICULAR ACTIVITIES

Fudan University, Student Union of School of Management   Shanghai, China
Vice President   Sept. 2018-June 2019
- As the vice president of School of Management Student Union, I established joint programs with the Seoul National University and the National University of Singapore.
- Organized the 10th and 11th Financial Forum and Cocktail Party, which had a great reputation across universities and industries, and attracted over 450 guests and spectators.

SKILLS

Technical: Python, MySQL, C++, Java, R, MATLAB