

He Zhu

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EDUCATION

2020

THE UNIVERSITY OF TEXAS AT AUSTIN

GPA 3.7/4.0

Master of Computer Science (Part-Time)

- Advanced Operating Systems, Distributed Systems, Machine Learning

2018 – 2020

UNIVERSITY OF CONNECTICUT

GPA 3.9/4.0

Master of Financial Mathematics (Risk Management)

- Financial Programming in OOP(C#, C++), Machine Learning in Finance, Time Series

2014 – 2018

CHONGQING TECHNOLOGY AND BUSINESS UNIVERSITY

GPA 3.6/4.0

Bachelor of Finance

- Statistics, Calculus, Probability, Linear Algebra

TECHNICAL SKILLS

- Programming: Python, C, C++, C#, Java, Microsoft Excel VBA, SQL (Access, MySQL)
- Core: Socket, IPC, System Programming, TCP/IP, Distributed Systems
- Libraries: Scikit-Learn, Tensorflow, NumPy, Pandas, STL, Boost

EXPERIENCE

05/2019 – present

WALL STREET NORTH LLC

Stamford, CT

Quantitative Developer Intern

- **Tools Development:** Interfaced closely with risk manager to develop in-house Excel add-in software to speed up specific computational work and batching quantitative reports.
- **Software Development:** Analyzed functional requirements and technical requirement to develop and maintain in-house financial software, including mortgage model backtesting platform, mortgage pricing application, options pricing engine and economic capital modeling application using C++, C# or Python as need.
- **Data Engineering:** Configured and optimized in-house SQL database server and clients on each desktop to support analysts to perform analysis. Adapted python to develop real-time data pipeline to automate the process of connection to vendor database, data cleaning, data storage and data extraction.
- **Model Development:** Followed industry best practice to develop and calibrate various models including stochastic interest rate models, exotic options pricing models, default and prepayment forecasting models, structured products pricing models to support analysts to perform research and analysis.
- **Model Documentation:** Assisted risk manager and analysts to perform model documentation by providing scenarios assumptions, model constraints, regulatory guideline, mathematical and statistical rationale, industry best practice, source code and other related information.

05/2019 – 07/2019

DISCIPLINED ALPHA LLC

Boston, MA

Capstone Project

- Infrastructure: Facilitated the research by designing and implementing the architecture of a lightweight backtesting engine in C++ that accepts data input from CSV, JSON and XML.
- Alpha Research: Applied Logistic Regression and factor engineering to build a robust scoring system. Developed a long/short equity trading strategy based on the scoring system and won 1st among 6 teams.

01/2018 – 08/2018

SAGI TECH LP

Ningbo, China

Quantitative Developer Intern

- Software Development: Adapted C++ to develop and maintain in-house utilities to ensure efficiency. Adapted Python to perform real-time analytics to support the portfolio management.
- Data Engineering: Designed and maintained data batching framework including connectivity to data sources (STEP), automatic data cleaning modules and statistical analysis modules in Python.

CERTIFICATION

- FRM PART I
- CQF (98/100)