

HONG ZHOU

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EDUCATION AND SKILLS

Northwestern University, Evanston, IL Expected 2024 • B.S. in Computer Science | Cum GPA: 3.558 out of 4.0

Related Coursework & Technical Specialties

◦ Google Cloud Platforms | GitHub | Java Programming | Java Script | Python Programming | R Programming | Linux | C & C++ Programming | HTML & CSS | Object Oriented Design | Dynamic Programming | Data Structures and Algorithms | Microsoft Office Suite | Design Thinking & Communication

Personal Skills

◦ Fast Learning | Problem Solving | Team Communication and Collaboration

Languages

◦ Bilingual in English (Native Fluency) and Chinese (Speaking)

WORK EXPERIENCE & STUDENT INVOLVEMENT

NU FinTech Oct 2022 – Present, *Backend Software Developer, Backtest Dev*

- Implementing backtesting tools for trading algorithms with GitHub pull requests for collaboration and review
- Core Dev member building Quant Trading Firm from scratch

NU Blockchain Group Apr 2022 – Present, *Machine Learning Developer, Researcher*

- Researched and presented on forecasting strategies and their tradeoffs
- Designed and tested machine learning models with historical data of cryptocurrencies

Kellogg School of Management at Northwestern University Mar 2022 – Present, *Software Developer*

- Designed a Python web scraping program via Google Cloud Platforms to collect data on 350,000 job applications
- Migrated to local program using SmartProxy API to scrape data using datacenter proxies

Shirley Ryan Ability Lab (<https://www.sralab.org/>) Apr 2022 – June 2022, *Student Engineer*

- Researched and developed the Paddle Pal, a kayak grip aid, for client with limited mobility in hand
- Gathered data from prototyping, mock ups, and user and proxy user testing
- Presented functional product to client at the end of the 3 months project timeline

Self Employed Apr 2018 – Jun 2021, *Private Tutor*

- Designed curriculum and conducted weekly lessons on Programming, Calculus, and SAT test preparation
- Created coursework, activities, and worksheets for classes

Technology Student Association (<https://tsaweb.org/>) Oct 2018 – Jun 2021, *Member*

- Placed 5th and 2nd in Engineering Design in consecutive state conferences
- Researched, documented, and presented reports on solutions to annual engineering challenges
- Organized team meetings and coordinated individual assignments

PROJECTS

AAPL Stock Model (https://github.com/hongZhou443/AAPL_Stock_Model) June 2022

- Developed a Long Short Term Memory stock predictive model with PyTorch
- Adapted use to multiple stock options with yahoo.finance library, with data Matplotlib for data visualization
- Used Openpyxl library for direct Excel manipulation and data storage throughout model testing with varying parameters

Gravity Jump Game May 2022

- Developed a remake of the game Gravity Jump using C++
- Designed geometric graphics and integrated power ups, coins, and sound effects.

Reading Buddy - NU WildHacks 2022 May 2022

- Designed the Reading Buddy in 24 hours for the NU WildHacks 2022 as a Terms and Conditions Reading aid
- Used React.js, and JavaScript