Zhenguo Mo

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EDUCATION

Northwestern University, Evanston, IL September 2017- June 2021
BS in **Electrical Engineering,** MS in **Computer Science** GPA: 3.74/4

- Courses in data structures, design & analysis of algorithms, computer systems, machine learning, computer networking, probabilistic systems, embedded systems, signals and systems, feedback systems, electronics, FOC
- Evans Scholar: awarded a 4-year, full tuition and housing scholarship to attend college based on excellent caddie record and strong academic performance

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WORK EXPERIENCE

SAP – Naperville, IL June 2019 – August 2019
Product Development Intern

- Published external API services using OpenAPI specification enabling increased partnership revenue streams
- Programmed automation for API documentation resulting in reduction of manual entry labor hours
- Assisted Integration Product Management team in finding security flaws in API services resulting in tightened security of services
- Authored best practice recommendations for API management to increase scalable use in production code

Myst Capital Group – Chicago, IL March 2019 – June 2019
Full Stack Developer Intern

- Developed and maintained applications to monitor and emphasize relevant and important currency pairs for trade
- Created and maintained a remote access SQL database and interactive GUI display to monitor RSS feeds for informed trading practice

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PROJECTS

Options Filter August 2020 – Present

- Designing a program to find profitable and relevant stock options for trade
- Programmed Oauth 1.0 signature method to generate authorized requests to E*Trade API
- Setup a local port to send E*Trade data for frontend access of option data

Algorithm Trading Framework September 2019 – Present

- Sandbox environment with stock data stored in a database and easily tested trading algorithms to practice statistics modeling and implementing strategies for pattern day trading models

Snake-NEAT April 2020 – June 2020

- Implemented neural net evolution to generate an AI that plays the game Snake with limited information

Electronic Circuit Design September 2019 – December 2019

- Designed, implemented, and soldered an electronic device to sound an alarm from a transducer when a light sensor is tripped
- Programmed a microcontroller to control a brushed DC motor's trajectory using a PIC32 microcontroller, rotary encoder, H-Bridge, and a current-sense amplifier

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SKILLS

Programming Languages: Python, Java, C++, C, C#, MATLAB
Technical: OAuth, Flask, MySQL, SQLite, OpenAPI