

Zhenguo Mo

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EDUCATION

Northwestern University – Evanston, IL

Graduation: Jun 2021

Bachelor of Science in Electrical Engineering, Master of Science in Computer Science

- GPA: 3.7/4.0, *Evans Scholar*: 4-year, full tuition and housing scholarship based on academic excellence
- Extracurriculars: Evans Scholars Tech Chair, Northwestern Robotics, Northwestern Esports

WORK EXPERIENCE

SAP – Naperville, IL

Jun 2019 – Aug 2019

Product Development Intern

- Published external API services following OpenAPI specification enabling increased partnership revenue streams
- Automated documentation of resource names of API endpoints using Python resulting in reduction of manual entry labor
- Partnered with Integration in validating OAuth login functionality of APIs resulting in tightened security of services
- Authored recommendations (sliding window, regional) to rate limit services to increase scalable use in production code

Myst Capital Group – Chicago, IL

Mar 2019 – Jun 2019

Full Stack Developer Intern

- Developed and maintained applications to monitor and emphasize relevant and important currency pairs for trade
- Alerted users with distinguishable sounds when currency pairs were on moderate watch and high watch
- Created and maintained a remote access MySQL database that stored RSS feeds for informed trading practice
- Deleted RSS feed articles, related links, and article information from database if not updated within a month

PROJECTS

Instra-AI

Backend Developer

Aug 2020 – Present

- Discussed in a growing team of six solutions to hospital sterilization inadequacies after numerous user studies
- Designed the code base for a healthcare computer vision product in validating surgical instrument kit construction
- Utilized OpenCV and Flask in creating an application to stream feed from camera to display in browser

Options Filter

Aug 2020 – Present

Backend Developer

- Built an application to find profitable and relevant stock options for trading using Python
- Coded OAuth 1.0 signature method to generate authorized requests to E*Trade API
- Set up a local port to send E*Trade data for frontend access of option data

Algorithm Trading Framework

Sep 2019 – Present

Backend Developer

- Housed a sandbox environment with stock data to test trading algorithms and strategies in Python
- Abstracted modules for back testing, statistics modeling, strategy environments, PostgreSQL databases, and APIs

Snake-NEAT

Apr 2020 – Jun 2020

Programmer

- Implemented neural net evolution to generate an AI to play Snake with limited information in Python
- Experimented with and analyzed the effect of different fitness functions on the behavior of the snake

SKILLS

- Programming Languages: Python, Java, C++, C, C#, MATLAB
- Technical: OAuth, Django, Flask, MySQL, SQLite, OpenAPI
- Relevant Coursework: data structures, design & analysis of algorithms, computer systems, machine learning, computer networking, probabilistic systems, embedded systems, signals and systems, operating system