Hunter Negron

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EXPERIENCE

Software Engineer

DV Trading & Prime Trading **Summer 2020 – Present**

- Implemented a novel logging service in C++ using concurrent ring buffer in shared memory to 10x diagnostics performance
- Developed and maintained critical core libraries for order matching, risk management, data handling, and execution protocols
- Collaborated with team members to design and deploy a new GUI with consideration for scalability and flexibility
- Worked closely with traders and quantitative analysts to translate trading strategies into high-performance software
- Led the team in the effort to incorporate issue tracking, improve documentation, and refine specification procedures using Jira

EDUCATION

Master of Computer Science and Bachelor of Science in Applied Mathematics **Fall 2018 – Fall 2022**

- Illinois Institute of Technology, 4.0 GPA
- Notable Coursework: Data Mining, Math Modeling, Graph Theory, Topology, Probability, Geospatial Vision, Math Finance, Distributed Operating Systems, Science of Programming, Operating System Design & Implementation, Linear Optimization

PROJECTS & RESEARCH

Research Assistant

Argonne National Laboratory **Summer 2022**

- Familiarized myself with high-performance computers and relevant technologies: Nvidia A100, Nvidia Nsight, Nvidia SMI, Tensorflow, Horovod, CUDA
- Collected and analyzed data and profiling information of an application in which Tensorflow was utilized to build a surrogate model in Python from data generated by a C++ computation
- Extended said application with Horovod to simultaneously utilize multiple GPUs

Hierarchical Peer-to-Peer File Sharing System **Fall 2021**

- Partnered with a colleague to develop a multithreaded, hierarchical file sharing system
- Leveraged Java RMI to register files, perform file queries, and pass consistency messages
- Implemented push-based and pull-based consistency mechanisms and automatic registry updating

Interprofessional Project: Internship Tracker Web App **Fall 2020 – Spring 2021**

- Collaborated on a team with other student developers to become familiar with Scrum
- Created a React.js app to help students organize and collaborate when finding an internship
- Led team as Scrum Master by delegating tasks and discussing weekly retrospectives

Data Mining Semester Project **Spring 2020**

- Analyzed a large, anonymous dataset using exploratory data analysis
- Trained and validated machine learning models: Decision Tree, Naïve-Bayes, Random Forest, K-Means Clustering, Agglomerative Clustering
- Utilized technologies including Jupyter Notebook, Pandas, Numpy, SciKit-Learn, Matplotlib, ONNX Pipeline

Simple Moving Average Expert Advisor **Spring 2019**

- Built an automated simple moving average crossover trading strategy in MQL4 and backtested it out of curiosity

SKILLS & FAMILIAR TECHNOLOGIES

C/C++, Java, Python, C#, JavaScript, Linux, Git, Make, Google Protocol Buffers, Agile/Scrum, Jupyter Notebook, HPC, Haskell, MetaTrader, React.js, SQLAlchemy, FastAPI, Forth, HDL, MIPS Assembly, HTML/CSS, C++ STL, POSIX Sockets, Pandas, Numpy, LaTeX, Java RMI, Jira, Confluence, Bitbucket, Flatbuffers

PERSONAL

- Planned and lead community service project and attained Eagle Scout
- Lead on Cru's Core Team, Shepherd Team Leader, Life Group Leader, Worship Team Member
- Served as treasurer or assistant treasurer of Cru, ML@IIT, and Phi Kappa Sigma
- Awarded STEM+ Scholarship, PSA Security Network Scholarship
- ILMEA All-State Honors Band Musician