SIMON **YANG**

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Education

University of Michigan, Ann Arbor Expected May 2023
B.S. Computer Science, Math Minor GPA 3.83
• William J. Branstrom Prize Recipient (Top 5% of Class)

Skills

Languages: C++, C, Lua, Python, SQL, MATLAB
Technologies: Git, MySQL, Linux, Bash, Vim
Coursework: Data Structures & Algorithms, Foundations of CS, Intro Computer Organization, Multivariable & Vector Calculus, Linear Algebra, Honors Intro Stats

Experience

Belvedere Trading
Chicago, IL
Incoming Software Engineering Intern
Jun 2022 – Aug 2022

Flux TTT Servers
Ann Arbor, MI
Founder, Game Developer
Jul 2020 – Present
A Garry's Mod (video game) community with custom-coded servers
• Design modular framework with customizable dependencies for speedier, cleaner maintainability
• Improve player experience by developing fun minigames, lootbox gambling, player trading in Lua
• Build anti-cheat system through C++ and Lua to automatically ban **900+** cheaters and rulebreakers
• Optimize MySQL database and client/server networking by **~100x** through delta update support
• Grown business to **41,000 players** and **$5,000/month in microtransaction sales** from store

Michigan Investment Group
Ann Arbor, MI
VP Recruiting, Quant Project Lead
Jan 2021 – Present
School's premier investment club intersecting quantitative finance and technology
• Organized recruiting events, wrote software & quant interview questions, and improved website SEO
• Revamped application process to **reduce recruiting bias** and **increase applications by 60%**
• Led Statistical Arbitrage team by designing interface, managing sprints, and performing code reviews

Twickenham Advisors
Huntsville, AL
Wealth Management Intern
Jul 2021 – Aug 2021
• Compiled & classified ~900 frontend transactions for importing into new software
• Drafted market reports and synthesized investment meetings with private equity wholesalers

Projects

Portfolio Risk Built portfolio weight optimization model that maximized Sharpe ratio and trained neural networks to predict covariance matrix and stock price (Python)

Assembly Simulator Created a program based on custom ISA that converted assembly language into machine code and simulated it with pipelining and caching (C)

Machine Learning Used natural language processing and machine learning to automatically classify the subject of media posts through a Naïve Bayes Classifier (C++)

SQL Emulator Programmed a SQL emulator with index generation for faster querying (C++)