SIMON **YANG**

✉ yangsim@umich.edu   📞 (256) 468 1978   in linkedin.com/in/yangsim   ⬤ github.com/ihatemagic

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, Computer Organization,
                Multivariable & Vector Calculus, Linear Algebra, Statistics

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 startup with custom-coded servers
• Design modular code framework library for accelerated development and cleaner maintenance
    • Cultivate client relationships by developing fun minigames, lootbox gambling, player trading in Lua
    • Enhance user experience by building anti-cheat system to automatically ban **900+** hackers
    • Optimize MySQL database and client/server networking by **~100x** through delta update
    implementation, **reducing crashes from malicious DoS attacks by 87%** and **increasing scalability**
• Supervise a team of 21 staff who moderate the servers and forums to elevate player experience
• Surged flagship server's global ranking to **#2 out of 1464** competing servers by popularity
• 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
• Organize recruiting events, marketing campaigns, and interviews, **increasing applications by 49%**
• Revamp application process with executive board to **reduce recruiting bias** and ensure standardization
• 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 ~800 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)
Stock Market	Organized a fast orderbook that read input orders, simulated buys & sells, and calculated optimal entry & exit prices while tracking daily trader profits (C++)
Assembly Simulator	Created a program based on custom ISA that converted assembly language into machine code and simulated it with pipelining and caching (C)
SQL Emulator	Programmed a SQL emulator with index generation for faster querying (C++)