JAMES XU

james@jamesxu.dev

jamesxu.dev
github.com/jamxu88
+1 240 593 1295
linkedin.com/in/xu-james/

EDUCATION

University of Illinois Urbana-Champaign • Champaign, IL
B.S. Computer Science

Expected
May 2026

Coursework: OOP, Data Structures, Computer Architecture, C++, Java, Computational Linear Algebra, Discrete Math, Computational Statistics, Calculus III
Research Interests: Time-series Modeling, Machine Learning, Quantitative Modeling

EXPERIENCE

Software Developer Engineer I • Stackline • Seattle, WA

Aug 2024 - Present

- Creating a fingerprinting library that can be easily plugged Atlas, a marketplace intelligence product, to collect data for developing a smarter automated agent to bypass antibot systems.
- Modifying and building a custom Chromium-based browser in C++ using analytics gathered from fingerprint tooling.
- Collaborating daily with the CTO and CEO on product development.

Software Engineer Intern • Stackline • Seattle, WA

Jun 2024 - Aug 2024

- Implemented and deployed automated dockerized Webkit agents to AWS EC2 instances for retail scraping to bypass antibot measures, improving failure rate from over 50% to less than 5% and allowing for parallel instances.
- Developed a browser fingerprinting toolkit for analyzing bot frameworks while also acting as an antibot that is more effective than industry standards such as Akamai and Kasada. Used Golang to create TLS fingerprinting servers and proxies.

Quantitative Trader • Quant @ Illinois • Champaign, IL

Sep 2023 - Present

- Researched, developed, and tested an automated volatility trading strategy that had a sharpe ratio of 0.554 over the long-run, outperforming the S&P 500.
- Deployed a HFT strategy for trading an equity at researched price resulting in a return of 61.88% over 458 days versus a benchmark of 27.43% and a sharpe ratio of 1.42.
- Built a machine learning model with Tensorflow to emulate fundamental analysis in order to generate a 6-month equity valuation.
- Researching statistical models such as GARCH to forecast volatility for vega trading.

AI/ML Engineer Intern • SoKat Consulting • Baltimore, MD

May 2022 - Sep 2022

- Developed and implemented computer vision models using PyTorch to address challenges faced by the Department of Veterans Affairs, resulting in a $250,000 first stage grant.
- Collaborated with government stakeholders to ensure compliance with security and privacy regulations, facilitating the integration of AI/ML solutions into classified environments.

Founder • Fuchsia • Washington, D.C.

Jan 2021 - Oct 2022

- Managed a team of six engineers to develop web, automation, blockchain, and productivity software for 10 clients that serve 10,000+ customers, increasing their competitiveness.
- Automated the purchase of digital and retail goods in an arbitrage opportunity, generating a peak of over $12,000 monthly revenue in a limited market space.

SKILLS

Programming: Javascript • Python • C++ • Typescript • NodeJS • HTML • CSS • Java • Golang
Libraries/Frameworks: PyTorch • TensorFlow • Keras • Pandas • NumPy • React • Docker • AWS
Software: Figma • Adobe Creative Suite • Microsoft Office • Google Suite