Jason Lu

jasonlu@u.northwestern.edu | 630-802-6386 | Evanston, IL
lujason.com | linkedin.com/in/jasonlu230 | github.com/jasonxlu

EDUCATION

Northwestern University, Evanston, IL — Expected 2025

Bachelor of Science in Computer Science, Minor in Data Science and Engineering — *Aug 2021 – June 2025*
- GPA: 3.82/4.00, Dean's List (4 quarters)
- Coursework: Data Structures and Algorithms, Computer Systems, Database Systems, Data Engineering, Machine Learning

TECHNICAL SKILLS

Languages: Python, C++, SQL, HTML, CSS, C, JavaScript, Java, ARM-32/x86-64 Assembly
Frameworks: React, Tailwind CSS, Node.js, Next.js, React Native, WordPress
Developer Tools: Git, Unix, Tableau, AWS, Firebase, Figma, Juypter, MySQL, Azure DB
Libraries: Pandas, NumPy, Matplotlib, Twilio, WebSocket, Multiprocessing
Security Clearance: Interim Secret (Mar 2023 - Sept 2023)

EXPERIENCE

Data Science Intern — June 2023 – Aug 2023

Defense Counterintelligence and Security Agency (DCSA) — *Quantico, VA*
- Incoming Summer 2023 Intern

Undergraduate Teaching Assistant — Mar 2023 – Present

Northwestern University Computer Science Department — *Evanston, IL*
- Undergraduate TA for CS213 (Introduction to Computer Systems) during spring quarter of 2023
- Instructed topics of x86 assembly, virtual memory, concurrency, caches, system architecture, and security
- Conducted weekly office hours, proctored exams, and resolved issues with labs/homeworks to support students

Software Engineer Intern — Feb 2023 – Present

Opto Financial — *Chicago, IL*
- Integrated Plaid APIs allowing customers to connect bank account information for personalized data analysis
- Formulated strategies for technology team to design mobile application front-end and back-end components
- Adapted Ruby on Rails web application to React Native mobile application codebase

Technical Project Lead — Mar 2022 – Present

Northwestern Financial Technologies Club — *Evanston, IL*
- Served as leadership to 6+ technical teams to develop multifaceted quantitative trading platform from scratch
- Spearheaded infrastructure development and conducted code reviews to promote system efficiency of project
- Established workflows for metadata processing team and organized weekly meetings for 10+ developers
- Led organization recruitment and event planning for fall 2022 attracting 295 student researchers and developers

PROJECTS

Ride Sharing Mobile App | *React Native, Firebase, Twilio, Tailwind* — Apr 2023 – Present
- Constructed designs of mobile application user flow and prototyped screens using Figma with team of 4
- Implemented and styled various React Native components to allow basic app navigation and database integration

Quantitative Trading Platform | *Python, Pandas, Multiprocessing* — Mar 2022 – Apr 2023
- Designed storage paradigms using Python multiprocessing and WebSocket APIs for 5+ data streams
- Converted data from WebSocket streams into JSON format for variable time storage in AWS S3 Glacier
- Contributed to command line interface improving cross-team functionality and requisite data querying

Cryptocurrency Data Visualization | *Azure, SQL, Python, MS SQL Server* — Dec 2022
- Designed relational database with time-series Bitcoin data to optimize SQL querying for data visualization
- Leveraged Azure cloud databases and MS SQL Server for virtual hosting improving ease of access to database
- Visualized 11+ market statistics using Python libraries to determine trends and relationships between metrics

AWARDS

Northwestern WildHacks 2023 – *Most Creative Use of Twilio (MLH Prize)* — April 2023