

# Jason Lu

jasonlu@u.northwestern.edu | 630-802-6386 | Evanston, IL  
[lujason.com](mailto:lujason.com) | [linkedin.com/in/jasonlu230](https://www.linkedin.com/in/jasonlu230) | [github.com/jasonxlu](https://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++, C, JavaScript, HTML, CSS, SQL, Java, ARM-32/x86-64 Assembly, Racket

**Frameworks:** React, Node.js, Next.js, React Native, WordPress, Tailwind CSS

**Developer Tools:** Git, Docker, Firebase, VS Code, Figma, Jupyter, AWS, MySQL, Unix, Tableau, Azure DB

**Libraries:** Pandas, NumPy, Matplotlib, Twilio, WebSocket, Multiprocessing

**Security Clearance:** Secret level (Active June 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 on topics of x86 assembly, virtual memory, concurrency, caches, system architecture, and security
- Conducted weekly office hours, graded homeworks, and resolved issues with labs 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