

# Jason Lu

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## EDUCATION

### Northwestern University

*Bachelor of Science in Computer Science, Minor in Data Science and Engineering*

Evanston, IL

*Expected June 2025*

- GPA: **3.76/4.00, Dean's List (4 quarters)**
- Coursework: Data Structures and Algorithms, Computer Systems, Database Systems, Data Engineering, Machine Learning

## EXPERIENCE

### Data Science Intern

June 2023 – Aug 2023

*Defense Counterintelligence and Security Agency, Department of Defense*

*Quantico, VA*

- Engineered analytics programs within the National industrial Security System using **cloud-based** technologies
- Enhanced system cybersecurity posture, **scalability**, and system-to-system information sharing capabilities
- Contributed to an **agile software development** environment, improving enterprise services and data pipelines for DOD stakeholders to assess and mitigate risk in support of national industrial security

### 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 with **25+ students**, proctored exams, and resolved issues with labs/homeworks

### Software Engineer Intern

Feb 2023 – Present

*Opto Financial, [www.optofinancial.com](http://www.optofinancial.com)*

*Chicago, IL*

- Integrated **Plaid APIs** allowing customers to connect bank account information for personalized data analysis
- Formulated strategies with technology team to design front-end and back-end mobile application components
- Initiated adaptation of Ruby on Rails web application codebase to React Native mobile application

### Technical Project Lead

Mar 2022 – Present

*Northwestern Financial Technologies Club, [www.nuft-site.web.app](http://www.nuft-site.web.app)*

*Evanston, IL*

- Served as leadership to **6+ technical teams** to develop multifaceted quantitative trading platform from scratch
- Established workflows for metadata processing team and organized weekly meetings for **10+ developers**
- Spearheaded organization recruitment for fall 2022 attracting over **295 student researchers and developers**

## PROJECTS

### Quantitative Trading Platform | *Python, Pandas, Concurrent Processes*

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 DB, SQL, Python*

Dec 2022

- Designed relational database with time-series Bitcoin data to optimize SQL querying for data visualization
- Leveraged **Azure cloud services** for virtual hosting improving ease of access and scalability of database
- Visualized **11+ market statistics** using Python libraries to determine trends and relationships between metrics

## AWARDS

### Northwestern WildHacks 2023 – *Most Creative Use of Twilio Award*

April 2023

- Competed against **45+ teams** by prototyping ride-sharing mobile app user flow using Figma with **team of 4**
- Implemented and styled various React Native components for database integration using Tailwind and Firebase

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL, HTML, CSS, C, JavaScript, Java, ARM-32/x86-64 Assembly

**Developer Tools:** Git, GitHub, UNIX, Tableau, AWS, Firebase, Figma, Jupyter, Azure SQL DB

**Technologies:** Pandas, NumPy, React, Tailwind, React Native, WordPress

**Security Clearance:** ████████████████████