# Jason Lu

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## EDUCATION

**Northwestern University** — Evanston, IL
*Bachelor of Science in Computer Science, Minor in Data Science and Engineering* — *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* — *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* — *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, Juypter, Azure SQL DB
**Technologies**: Pandas, NumPy, React, Tailwind, React Native, WordPress
**Security Clearance**: ██████████████