Steven Lo Cen

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EDUCATION

New York University, Tandon School of Engineering ***Sep. 2022 - May 2026***

B.S. in Computer Science; *Minor: Mathematics, Cybersecurity & Game Engineering*; *Study Away @ NYU Shanghai*

- **Relevant Coursework:** Data Structures, Algorithms, Object-Oriented Programming, Databases, Operating Systems
- **Activities:** CSE Peer Mentor, Theta Tau (Webmaster), Chinese Mei Society (VP), SHPE, Tech@NYU, HackNYU

TECHNICAL SKILLS

Programming Languages: Python (Proficient); Java, C++/C (Intermediate); JavaScript, TypeScript, HTML/CSS (Beginner)
Tools/Frameworks: React, Flask, AWS, AWS CDK, Kubernetes, GPT, MATLAB, Git, CI/CD, Agile Development
Databases: SQL (MySQL), NoSQL (DynamoDB); **Operating Systems**: Linux (Ubuntu), macOS, Windows

PROFESSIONAL EXPERIENCE

Amazon Inc. (Whole Foods) - World-Wide Grocery Tech | *Systems Development Engineer Intern* ***May 2025 - Aug. 2025***

- Engineered AI-driven forecasting and anomaly detection on historical datasets, cutting investigation cycles by ~25% through **Python** scripting and **SQL** in **Athena**, while contributing to system design discussions that improved long-term data strategy
- Streamlined log pipelines for scalability and reliability, driving ~45% storage savings, ~10% latency reduction, and ~15% reliability gains by automating deltas and snapshots with **AWS Lambda**, **CDK**, **CloudWatch**, and **S3**
- Designed interactive analytics that reduced manual reporting effort by ~40%, building **QuickSight** dashboards with **Amazon Q** natural language queries, and authoring documentation to support compliance, onboarding, and long-term maintainability

NYU FAS Computer and Information Technology | *IT Worker* ***Jan. 2024 - Present***

- Managed IT assets by configuring 15+ **macOS**/**Windows** devices weekly, installing software, and resolving technical issues/tickets to ensure timely replacements, system reliability, long-term asset planning, and overall productivity

PROJECTS

Hustle Hub Job Board ***Jan. 2025 - Present***

- Built a multi-language job board that expanded access to job and financial resources for underserved communities by ~40%, improving usability for non-technical users through **Angular**, **Django**, and **PostgreSQL**
- Optimized workflows, security, and backend performance, increasing accessibility by ~25% and streamlining the application process by ~30% through scalable system design and compliance-focused development

StayPal – Smart Roommate Finder ***Sep. 2025 - Present***

- Planned a cross-platform roommate-matching app to help interns find affordable housing, measured by improved compatibility in roommate selection, by designing an MVP architecture with **React Native**, **Firebase**, and **PostgreSQL**
- Outlined a product roadmap for swipe-based matching and real-time chat, measured by a target MVP delivery in ~6–8 weeks, by scoping features, user flows, and technical stack

Criminal Database ***Feb. 2024 - May 2024***

- Redesigned backend architecture with advanced **SQL** functions, triggers, and procedures, streamlining data workflows by ~40% and cutting query execution times to boost responsiveness across critical use cases
- Developed a responsive front-end interface in **HTML**/**CSS**, improving navigation and usability by ~50% and creating an intuitive experience for non-technical users searching criminal records datasets

Farm Ninja Game ***Mar. 2024 - May 2024***

- Created an immersive **C++** game that boosted player engagement by ~30% by applying object-oriented design principles to build modular, reusable classes, while integrating visuals, animations, and audio cues that enhanced overall user satisfaction

NYU High-Performing Computing VIP | *Data Lake LIDAR Team & MLPerf Benchmarking* ***Sep. 2023 - May 2024***

- Optimized LIDAR Data Lake by creating entity-relationship diagrams and structured workflows in **Python**, improving organization and accessibility by ~5% for teams conducting environmental analysis on HPC cluster infrastructure
- Configured ML benchmarking workloads by setting up OS across nodes, increasing benchmarking efficiency by ~20% and achieving ~98% compatibility with model evaluation tasks, which streamlined large-scale machine learning experiments

INTERESTS

- Running (Brooklyn Half Marathon), Cafés, Cooking, Baking, Music, Pickleball, Hiking, Biking (CitiBike), Backpacking