

Alexander Wu

New York, NY

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EDUCATION

New York University

Sep 2022 - May 2026

Bachelor of Science, Mathematics and Computer Science

Minor: Cybersecurity

GPA: 3.807

Coursework: Data Structures and Algorithms, Object Oriented Programming, Linear Algebra, Combinatorics, Design and Analysis of Algorithms, Intro to Databases, Computer Architecture, Applied Probability

SKILLS

Technical Skills: Python, C++, HTML/CSS, Javascript, SQL, Kotlin, Java

EXPERIENCE

PNC Financial Services

May 2024 - Aug 2024

Software Engineering Intern

- Worked with the Technology Innovations team on Scan and Learns for emerging technologies such as 6G and deep fakes
- Prototyped applications of small language models using PyTorch and biometric verification in Android Studio
- Developed a chatbot application with a RAG architecture built in Python and used a Pinecone vector database to parse FFIEC bank regulation documents, boosting productivity by 35%

New York University

Aug 2023 - Present

Computer Science Head Teaching Assistant (OOP in C++)

- Plan weekly meetings with the professor and mentor new TAs
- Led 2 weekly labs with 30-60 students each and guided them through programming lab assignments
- Graded weekly assignments based on code correctness and style
- Instructed students on object-oriented programming ideas through weekly office hours

PROJECTS

Autograder | C++, Python

- Developed an autograder on Gradescope for assignments and labs for an introductory Object Oriented Programming course
- Decreased grading times for teaching assistants by 20% by automating tasks such as comparing output for hundreds of students a semester

Air Ticket Reservation System | Python Flask, SQL, HTML, CSS

- Simulates an online flight booking system that supports both customer and staff accounts as well as specific functionality for each group
- Developed a backend using a MySQL database, Apache web server, and Flask to connect the database with the frontend
- Planned and developed a frontend consisting primarily of HTML/CSS for a user interface with some Javascript for certain graphics

CLUBS

Vice President: Applied Mathematics Club

- Officiated events in the president's absence and chaired committees or projects as identified by the president
- Managed bylaw review and revision

Member: Society of Asian Scientists and Engineers