

JUSTIN LIU

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EDUCATION

New York University | Tandon School of Engineering

Brooklyn, NY

Bachelor of Science in Mathematics, Minor in Computer Science

Expected May 2025

Extracurriculars: Mathematics Society, Artists Anonymous, SLAM! Poetry Club, Ballroom and Latin Dance Team

Coursework: DSA, OOP, Calc 3, Discrete mathematics, ODEs, PDEs, Theory of probability, Applied statistics

Achievements: [2023 Dibner Art Showcase](#) (Accepted submissions)

Binghamton University, SUNY | Thomas J. Watson College of Engineering and Applied Science

Binghamton, NY

Major in Computer Science

Aug 2021 - Dec 2022

Achievements: Watson College Dean's List for Fall 2021, ACM Final Programming Competition - Top Freshman/Sophomore

Extracurriculars: Harpur Chorale (Tenor), Association for Computing Machinery (ACM)

Coursework: Programming hardware & fundamentals, Programming with Objects and Data Structures, Calculus 2, Linear algebra, Number systems

Stuyvesant High School

New York, NY

High School Diploma

Jun 2021

SAT 1530/1600

Achievements: AP Scholar with Honor, Poetry Award, 2021 CCNY NYC High School Poetry Contest - Honorable Mention

PROFESSIONAL EXPERIENCE

Google, Software Engineer Intern (Backend) | New York, NY

Jun 2024 - Aug 2024

- Implemented service mesh via proxyless gRPC to facilitate key lookups within sharded key-value server on the cloud, improving scalability and load balancing
- Utilized Terraform, C++, Google Cloud Platform, gRPC, xDS API

New York University, Tutor | Brooklyn, NY

Sep 2023 - Dec 2023

- Guided and instructed students to help excel in their courses including Calculus, Data Structures & Algorithms
- Adapted to and developed students' learning styles and problem-solving skills

Lockheed Martin, Data Science Intern | Remote

Jun 2023 - Aug 2023

- Developed infrastructure on AWS by utilizing Terraform, an IAAC
- Wrote and updated SQL queries on data virtualization tool
- Developed Python scripts to process and transfer data from to different formats and databases
- Worked in Agile, Scrum and collaborated with different teams

Patch The Producer LLC, Software Developer Intern | Remote

May 2022 - Jun 2022

- Collaborated with front-end and full-stack developers as a back-end developer to develop company website
- Built and tested payment webpage utilizing Firebase, and Stripe

PROJECT EXPERIENCE

McHacks 11 - ShortsNews, Backend Developer

Jan 2024

- Developed application to generate short news videos based on user input in team of 4
- Utilized Python, NewsData API, Google Cloud Text-to-Speech API

Instagram Unfollower, Programmer

Jan 2023

- Developed user-friendly Python script to automate unfollowing Instagram accounts that don't follow you back
- Utilized Selenium, XPATH, and JavaScript to web scrape and perform browser actions

Personal website, Web Developer

Feb 2022 - Present

- Create portfolio website on GitHub pages
- Utilize HTML, CSS, and JavaScript to develop creative UI, using JavaScript to automate code

Bloons Tower Defense, Java Developer

May 2021 - Jun 2021

- Led development of a video game modeled on Bloons Tower Defense
- Utilized Processing (a Java-based program) to create complex code with a visually appealing output
- Oversaw front-end components in addition to developing back-end
- Applied Git and UML diagrams to coordinate with team

SKILLS

Coding languages: Python, C++, Java, SQL, HTML, CSS, JavaScript, NodeJS, ExpressJS, Docker, UML, C, Terraform

Verbal languages: English, Spanish, Cantonese

Software & OS: Git, Selenium, TIBCO, AWS, SQL Server, Firebase, Stripe, Pandas, SAP, Windows, Linux, Roblox Studio