Jack W. Stoltz

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Education

Georgia Institute of Technology | Atlanta, GA *Expected Graduation, May 2026*

Bachelor's of Science in Computer Engineering, **GPA 4.00**

- **Concentrations:** Distributed Systems & Software Design and System Architecture
- **Related Coursework:** Computing in Python, Object-Oriented Programming, Discrete Mathematics, Approaches to Intelligence, Data Structures & Algorithms

Experience

New York Edge | Brooklyn, NY *June – August 2024*

STEM Teacher

- Taught class of 25 students the fundamentals of programming using Javascript and Python, as well as mathematics
- Instructed students how to solve Rubik's cubes methodically using CFOP algorithms
- Ensured students got ahead through developing their logical thinking and problem solving

Firm SA-DA Architecture| Brooklyn, NY *June – August 2023*

Computer Builder

- Built 15+ high-level rendering computers for staff as needed.
- Inspected faulty computer parts and decided on adequate replacements to install
- Optimized technical issues regularly and provided general IT services to architects at office

Tech Start-Up Qwzrd| Brooklyn, NY *June – August 2022*

Technical Assistant

- Programmed drafts of input and graphical tools in JavaScript passed on to team of professional software engineers to use as frameworks for tool implementation, improving company efficiency and cohesion
- Analyzed 100s of positive and negative applications of algorithms used in online education objectively and organized data for CEO to assess and learn from competition in field
- Researched variable input tools to determine best GUI design for students to easily interact with

Projects

Central New York Hackathon | Utica, NY *November 2023*

- Won 2nd place in cybersecurity competition with 7-person team to defend website and remove malware installed by an offensive red team
- Coordinated team in assigning tasks to those with relevant skills and experience

Dining Satisfaction Project | Syracuse, NY *November 2023*

- Collaborated and developed a Python program in team of 4 to find the best dining hall given mean and standard deviation
- Led team and created method 30% more accurate than 2nd most optimized method

Robotic Arm| Brooklyn, NY *April 2023*

- Programmed and constructed functional robotic arm in C++ with potentiometers, Arduino circuitboard, servo motors, and wood.
- Able to pick up and drop items, as well as rotate 360 degrees.

Leadership

NYC Engineering Immersion Trip *January 2024*

- Networked with Google, Accenture, EY, SOCOTEC, Arcadis, and Langan professional engineers on Syracuse sponsored 4-day trip to NYC and gained insight into their work on a day to day basis
- 1 of 20 selected for exclusive trip, the only first year chosen

Cybersecurity Club *September 2023 - May 2024*

- Strategized in defense-oriented Hackathon competitions leveraging computer navigating and Command Shell skills
- Practice weekly in NCAE Cyber Games provided learning environments with team in person and online.

Skills

Software: Java, Python, JavaScript, C++, C, HTML, CSS, SQL, ReactJS, Command Shell

Frameworks & Services: React, Node.js, MATLAB, LaTeX, Git

Hardware: Arduino, Raspberry Pi, building computers, robotics

Fundamentals: Algorithms/Data Structures, OOP, Microsoft Office