

Andrew Juang

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EDUCATION

Boston University

BA Computer Science and Statistics; GPA : 4.0/4.0

Sep 2022 – Present

Boston, MA

Stuyvesant High School

Cumulative GPA: 96 / 100

Sep 2018 – Jun 2022

New York, NY

Relevant Coursework: Concepts of Programming Languages, Computer Systems, Introduction to Data Structures & Algorithms, Linear Algebra, Multivariate Calculus, Discrete Mathematics, AP Computer Science A, Software Development, Systems-Level Programming, AP BC Calculus, AP Physics C: Mechanics, AP Physics C: E&M

Awards & Honors: 2x AIME Qualifier (ranked top 3000 in the nation for math), NYC Math Team Member, Boston University Presidential Scholarship, USA Computing Olympiad Silver Qualifier, 3rd Place at CUHSPC, National Merit Boston University Scholarship, AP Scholar with Distinction, CML National Award, Mu Alpha Theta Honor Society

TECHNICAL SKILLS

Languages: Python, HTML/CSS/Javascript, C / C++, Java, SQL

Computer Software: Git/Github, Microsoft Office Suite, LaTeX, iMovie

EXPERIENCE

Yahoo

Incoming Software Engineer Intern

May 2023 – Aug 2023

New York, NY

Numeraxial LLC

Software Engineer Intern

Aug 2022

Remote

- Constructed a web user interface that helps investors manage portfolios by utilizing React and developing the Figma wireframe
- Assisted with quantitative risk analysis by integrating MongoDB Change Streams with Socket.IO

Spark Inc.

Web Development Intern

May 2022 – Jul 2022

Remote

- Upgraded SEO techniques for the Slogan Slingers website by improving keyword targeting, disavowing backlinks, updating XML sitemaps, and upgrading the site's security
- Worked with the digital marketing, field marketing, and product marketing teams to create and improve websites

Stuyvesant Student Government

IT Department Director

Sep 2020 – Jun 2022

New York, NY

- Represented the student body's technological needs in weekly cabinet meetings by directing the development of the Senior/Junior and teacher information website
- Updated stuyactivities.org's API and frontend using GraphQL and React

PROJECTS

TopoTraversal | NumPy, PyGMT, Tkinter, Pandas, OpenSimplex

Jun 2021

- Computed best paths given certain geographical coordinates by image processing a topographical map to help with planning and creating paths in the wilderness as a part of the Google NYC Mentorship Program
- Developed a graph theory algorithm that takes into account terrain slope, distance, and water using my knowledge of BFS, DFS, and Dijkstra's Algorithm

Teacher Tally | Flask, SQLite3, Google OAuth 2.0, HTML/CSS, Jinja2

Dec 2021

- Developed and deployed a Flask web application to make information about every teacher's emails, course syllabi, and free periods/office hours more accessible
- Utilized Google OAuth 2.0 in order to ensure the site's security and privacy

TypeRacer | C, NCurses

Jan 2022

- Implemented Transmission Control Protocol between client/server using packet structs and the 3-way Handshake as a part of a broader project to improve one's typing speed
- Leveraged NCurses to display the Server Connections, Words Per Minute, and Users' Progress Packets