Joshua Liu

(949) 551-8585 | joshualiu@brandeis.edu | Boston, MA

I am a rising sophomore at Brandeis University, looking for software engineering internship opportunities in computer science and applied mathematics, to further my interests and learn to apply my programming skills in the real world.

EDUCATION

Brandeis University   **Waltham, MA**
B.S. in Computer Science   *(expected) Class of 2026*
- ○ Cumulative GPA: 4.00, Student-Athlete, Dean's List (Fall 2022, Spring 2023)

Portola High School   **Irvine, CA**
- ○ Weighted GPA: 4.33, SAT: 1530, ACT: 34, Portola Pride Award, National AP Scholar with Distinction   *Class of 2022*

RELATED EXPERIENCE

Boston College Computer Vision Research   **Chestnut Hill, MA**
Summer Research Intern   *June 2023 - August 2023*
- ○ Summer research intern under Donglai Wei, a Professor in the field of Computer Vision and Biomedical Image Analysis at Boston College. Contributed to developing a web app that segments and labels neurons for clients.
- ○ Worked on the front end in React.js and the back end in FastAPI to help organize high-resolution images and labels of neurons by (labeling and tagging files) creating a way for clients to rename files and revert them.
- ○ Developed a capability in React.js that allowed users to run multiple visualization tabs. Required updates to the FastAPI backend and figuring out how to modify it to run different instances of neuroglancer simultaneously.

Brandeis University Machine Learning Research   **Waltham, MA**
Research Intern   *October 2023 - present*
- ○ Researching under Dylan Cashman, a Professor at Brandeis University who is currently working on columnar data augmentation using knowledge graphs.
- ○ Performing research in machine learning regarding neural networks and image classification and attending weekly meetings.

OTHER WORK EXPERIENCE

Orange County Rescue Mission   **Tustin, CA**
Volunteer   *June 2016 - August 2022*
- ○ Provided a program for underprivileged children every Saturday night of the year

Orange County Hydrocephalus Walk   **Huntington Beach, CA**
Volunteer   *October 2019*
- ○ Participated and helped set up a walk to raise awareness about hydrocephalus

EXTRACURRICULAR ACTIVITIES

Varsity Baseball, Brandeis University   **Waltham, MA**
Walkon Outfielder/Pitcher   *August 2022 - present*

Brandeis Quant Club   **Waltham, MA**
Member   *August 2023 - present*

Asian Baptist Student Koinonia, Brandeis University   **Waltham, MA**
President   *August 2022 - present*
- ○ Christian Bible Study and fellowship group meeting every Friday with outreach events in the fall and spring.

Portola High School High School Sports   **Irvine, CA**
Varsity Captain   *August 2018 - June 2022*
- ○ 4-year varsity starter and captain for baseball and 2 years of basketball

SKILLS
- ○ Python
- ○ Java
- ○ C++
- ○ Javascript
- ○ HTML
- ○ React.js
- ○ FastAPI
- ○ MongoDB

COURSEWORK
- ○ Data Structures and Algorithms
- ○ Discrete Structures
- ○ Web Application Development
- ○ Linear Algebra
- ○ Multivariable Calculus
- ○ Introduction to Proofs
- ○ Differential Equations

LINKS
- ○ linkedin.com/in/joshuagliu
- ○ github.com/joshliu14

OTHER
- ○ CPR certification
- ○ Limited proficiency in Chinese and Spanish