Joshua Liu

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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: 3.97, Student-Athlete, Dean's List (Fall 2022, Spring 2023, Fall 2024)

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 Software 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.
- Developed 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 modifications to run different instances of neuroglancer simultaneously.

Brandeis University Machine Learning Research   **Waltham, MA**

Research Intern   *October 2023 - present*

- Meeting weekly with Professor Dylan Cashman of Brandeis University to research how to improve facial recognition and interpretability of machine learning models.

OTHER WORK EXPERIENCE

Travel Mug   **Boston, MA**

Software Developer   *December 2023 - present*

- Developing a unique coffee recommendation website based on personal preferences and cafe products/methods using React, Redux, and Firebase. Containerized the application with Docker and set up automated testing and deployment with GitHub and Azure.

TAMID   **Waltham, MA**

Software Engineer   *January 2024 - present*

- Software engineer for Tamid Tech Consulting club at Brandeis University; currently developing a Unix Shell in C as a foundation for future projects.

EXTRACURRICULAR ACTIVITIES

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.

Varsity Baseball, Brandeis University   **Waltham, MA**

Walkon Outfielder/Pitcher   *August 2022 - present*

Brandeis Quant Club   **Waltham, MA**

Member   *August 2023 - present*

COURSEWORK

Theory of Computation ○ Linear Algebra ○ Data Structures and Algorithms ○ Fundamentals of SWE
Discrete Structures ○ Web Application Development ○ Operating Systems ○ Linear Algebra

SKILLS

Python ○ Java ○ C ○ C++ ○ Javascript ○ Docker ○ Azure ○ CI/CD ○ DevOps
React.js ○ FastAPI ○ MongoDB ○ Node.js ○ TensorFlow ○ Visual Studio Code ○ VIM