

EDUCATION

Brandeis University, Waltham, MA

Bachelor of Science in Computer Science, Applied Mathematics

Expected May 2024

GPA: 3.86/4.00; Dean's list

Relevant Courses: Data Structures and Algorithm in Java, Object-oriented Programming Techniques in Java, Problem solving in Python, Theory of Computation, Natural Language Processing, Optimization, Differential Equations, Linear Algebra, Calculus

EXPERIENCE

HackMIT 2022 (Python, Flask, Figma)

Oct 2022

- Get selected as one of 1000 participants in HackMIT from applicants around the world.
- Collaborated with team members and investigated Audio Digital Signal Processing and Natural Language Processing techniques.
- Self learned Q&A generation, implemented it in python and incorporated it in final project in two days with team member
- Launched web page integrated transcription, summary, and question generation using Figma.
- Designed a website that could provide functions of audio to text translations, summary generation, and QA generation using transformer, HEPOS, entity highlighting

Member of Branda (React Native, Figma)

Apr 2022 - Present

- Collaborated with other team members to develop and optimize existing features of Branda app for Brandeis University
- Designed new layout of Special Event section for Branda APP that can display Brandeis upcoming events and direct to the relevant website
- Focusing on Frontend and improved features in the mobile app using Figma and React native
- Work closely with team members to constantly innovate app functionality and design

Public Relations Member of Brandeis Chinese Culture Connection Club

Sep 2021 - Present

- Copywriter for Brandeis Chartered Chinese Culture Connection Club
- Collaborated with team members to develop marketing materials for upcoming events
- Composed and embellished more than 10 Wechat articles to advertise BC3 events
- Three years experience in writing Wechat articles
- Wrote articles for Spring Festival shows recruitment, Eyes for Brandeis photography contest recap, Brandeis new food ordering and delivery APP description, with 500 views on average.

Projects

Race Car (JAVA)

- Apply the practices of inheritance and object-oriented programming to design a race car simulation

Chess Scoreboard System (JAVA)

- Implementing a self-balancing AVL Tree to self-balancing AVL tree to allow fast computation of player ranking

Stochastic Variance Reduced Gradient Experiment (Jupyter Notebook)

- Collaborated with team members to do experiments and academic research to find out why SVRG can result in a better convergence.
- Compare convergence speed of SVRG and regular SGD method, concluded that using SGD or GD at the beginning of the descent and then turn to use SVRD will find a more precise solution.

Leadership

President of Brandeis Running Club

Mar 2021 - Present

- Created Brandeis first Running Club and recruited more than 100 members
- Established Running Club overall objectives and value system
- Organized running events twice a week
- Managed meetings with e-board meetings to set goals and stimulate enthusiasm of runners in Brandeis
- Managing club's budget and plan for future events.

Skills

Python, Java, React Native, Basic editing , Figma