

Zachary Boroda

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College student seeking impactful technical challenges to grow and level up my software development, data and applied math skills. Looking for an opportunity to work on projects that bring value in agile, mission driven organizations.

EDUCATION

Brandeis University, Waltham, MA — BS in Computer Science and Applied Mathematics GPA: 4.0

AUGUST 2019 - EXPECTED GRADUATION DATE: MAY 2023

Major: Computer Science, Applied Math **Minor:** Russian Studies

Relevant Coursework: Advanced Programming Techniques in Java; Data Structures and the Fundamentals of Computing; Linear Algebra; Applied Linear Algebra Practicum (Python); Introduction to Proofs (problem solving and LaTeX); Quantitative Biology Research; Probability, Physics Mechanics with Calculus, Physics Electricity with Calculus, Operating Systems; Discrete Structures; Intro to Real Analysis; Differential Equations

EXPERIENCE

Brandeis University Department of Computer Science, Waltham, MA — Teaching Assistant COSI 21A (Data Structures)

AUGUST 2020 - PRESENT

- Assisted teaching Data Structures with Prof. Antonella DiLillo
- Graded and debug programming assignments and problem sets.
- Helped students with understanding by holding regular office hours
- Ran recitations for over 100 students reviewing concepts

Brandeis University Quantitative Biology Research

Community (QBReC), Waltham, MA — Research Rotations

JANUARY 2020 - MAY 2020

- Modeled neural networks and chaotic systems
- Used python and matlab implementing the SINDy Algorithm.
- Utilized the numpy and scipy libraries.
- Analyzed flies and their circadian rhythms

Habonim Dror Camp Galil, Ottsville, PA — Camp Counselor

JUNE 2019 - AUGUST 2019 / JUNE 2020 - AUGUST 2020

- Lived and worked as an overnight camp counselor at Camp Galil
- Virtually worked in 2020 and ran Zoom meetings for campers
- Built community over the internet for campers ages 10 - 14.

PROJECTS

BotNy — Plant analysis tool: Winner of Codestellation Hackathon 2020

<https://devpost.com/software/botany>

Built BotNy website that serves as a plant analysis tool and gives the user the ability to understand trends in humidity, sunlight, and temperature gathered from an arduino attached to the plant and compared with the guidelines for plant care gathered by web scraping.

Other Projects — Some software development I've done for hackathons, class projects, and on my own

<https://github.com/ZBoroda>

Built a Page Rank algorithm in Python, using applied linear algebra and numpy and scipy libraries. Built an Email Spam Filter in Java, using multiple, implemented from scratch, data structures including: priority queues, hash tables, and linked lists.

SKILLS

- Libraries and Data Structures in: Java, Python, Matlab, LaTeX, JavaScript, React Framework, HTML and CSS
- Git
- Windows, Linux, and Mac OS
- Zoom and Slack platforms
- Accuracy and attention to detail
- Organization and prioritization
- Fluency in English and Russian
- Microsoft Office Suite

AWARDS

Howard Hughes Medical Institute QBReC Scholar at Brandeis University.

Dean's List at Brandeis

University 2019 - Present

Codestellation 2020, Winner Judges Pick

PROGRAMMING LANGUAGES

Java, Python, Matlab, JavaScript

ACTIVITIES AND LEADERSHIP

Brandeis Mountaineering and Outdoors Club — Vice-Treasurer

- Organized efficient fundraising, budget management, and purchasing for the 200 member club.
- Led trips into the New England wilderness for the Brandeis community.
- Enhanced diversity in the outdoors community by offering discounted outings for low income students.

J Street U Brandeis — Treasurer and Education Chair

- Enhanced partnership with faculty, staff, and students for campus involvement.
- Created deeper knowledge and understanding of the Israeli Palestinian conflict.