

Gianna Everette

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EDUCATION

Brandeis University

B.S. in Computer Science & Physics Minor

Cumulative GPA: 3.6/4.0; Dean's List 2021-2022

Waltham, MA

Expected May 2025

Relevant Coursework: Data Structures & Fundamentals of Computing, Advanced Programming Techniques in Java, Applied Linear Algebra, Fundamentals of Software Engineering, Probability & Statistics

EXPERIENCE

Brandeis University

Undergraduate Teaching Assistant

Waltham, MA

August 2023 – Present

- Collaborated with instructors to develop and update course materials targeting computing fundamentals like variable declaration and function usage
- Conducted regular office hours offering personalized assistance, concept clarification, and code optimization
- Mentored ~100 students in an introductory Python course teaching technical problem-solving techniques

Van Hooser Neuroscience Laboratory

Research Assistant

Waltham, MA

Jan 2022 – Present

- Developing a data analysis algorithm in MATLAB using the Naka-Rushton equation and Bayes' Theorem to increase range of data points depicting a neuronal response curve
- Designed, modeled, and assembled 3D printed carbon fiber microelectrode arrays using KiCAD and SolidWorks to track cell activity and preference in ferrets' visual systems.
- Prototyped a Thomas electrode microdrive using KiCAD and Fusion360 for chronic recordings that map neuronal activity spikes in ferrets for cortical circuit mapping

Massachusetts Institute of Technology

Break Through Tech AI Scholar

Cambridge, MA

May 2022 – April 2023

- Implemented a collaborative-filtering system in Python dependent on user-to-item comparison to calculate similarities in movie scores to build a movie recommendation system
 - Team of 4 earned 3rd place in this Google-sponsored Kaggle competition.
- Utilized Python and PyTorch to train models and improve computer vision accuracy by 7% to accept new and diverse American Sign Language data to achieve more ubiquitous real-time translation.

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, Bash, Svelte, MATLAB

Frameworks/Tools: React, Node.js, JUnit, Eclipse, VS Code, Git

CAD/CAM Software: SolidWorks, Fusion360, KiCAD, PrusaSlicer

LEADERSHIP

Society of Asian Scientists and Engineers (SASE) | Treasurer

2023 – Present

- Administered the allocation and disbursement of funds for various initiatives and community projects, maintained transparent communication with cohort members and Student Union Treasury

Computer Science Undergraduate Departmental Representative

2023 – Present

- Connected students to opportunities within and beyond Brandeis, facilitated student and faculty discussions, led career and academic centered events with 80+ attendees

Brandeis Encourages Women in Science & Engineering (BEWISE) | Treasurer

2022 – Present

- Engaged university alumni and field professionals with ~300 club members to cultivate mentor relationships and networking within the STEM community.