

Jack O'Brien

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github.com/JackOBrien21

Education

College of the Holy Cross

AB in Mathematics and Computer Science, GPA: 3.57; cum laude,

Honors: Dean's List (Fall 2019, Fall 2020, Spring/Fall 2022, and Spring 2023),
Pi Mu Epsilon Mathematics Honor Society

Worcester, MA

Graduation: May 2023

Skills and Relevant Coursework

Programming Languages: Java, Python, JavaScript, C#, SQL, HTML, CSS, MATLAB

Technologies and Frameworks: ReactJS, PyTorch, NumPy, Pandas, Django, MySQL, Git

Mathematics Coursework: Single and Multi-variable Calculus, Linear Algebra, Numerical Analysis, Probability Theory, Mathematical Models

Computer Science Coursework: Data Structures, Analysis of Algorithms, Computer Systems and Organization, Artificial Intelligence, Computer Networking, Databases

Work Experience

○ Nassau County Board of Elections

Mineola, NY

Information Technology

Jun 2022 - Present

- Supported the IT director, configured and maintained various hardware and software, and performed regular back-ups.
- Designed, tabulated, and verified ballots for elections held in Nassau County.
- Installed computer systems and executed other duties as required.

○ Department of Mathematics and Computer Science

College of the Holy Cross, Worcester, MA

Teaching Assistant and Grader

Sep 2021 - May 2023

- Aid Professor in fielding questions and respond to students with various inquiries during lab, grade weekly assignments.
- Conduct office hours for general questions and preparation for exams for the following classes: Intro to Programming, Data Structures, and Computer Systems and Organization.

○ Boy Scouts of America

Onteora Scout Reservation, Livingston Manor, NY

Assistant Program Director and C.I.T. Director

Dec 2020 - Aug 2021

- Assisted in leading a program staff of 50+ members to provide Scouts the most enjoyable and memorable experience possible.
- Developed, implemented, and managed a program schedule for 1500+ participants (adult and youth).
- Developed a Counselor-in-Training program for aspiring staff members and provided them with the necessary knowledge to staff at Onteora Scout Reservation.

Assistant Program Director

Dec 2019 - Aug 2020

- Adapted a full summer program to a remote version on Zoom and assisted in leading a program staff of 50+ members.

Software Projects

○ Sorting Algorithm Visualizer

github.com/JackOBrien21/visualizer-project

Applications that visualize common sorting and searching algorithms created using ReactJS, HTML, and CSS. The visualizers are hosted on Firebase and can be found at jackobriendevwebsite.web.app/projects.

○ Personal Notes Application

github.com/JackOBrien21/djangoNoteProject

Notes application with login system with the ability to create, view, add new notes, and update existing ones. This application was created with Django (Python), HTML, and CSS.

Achievements and Awards

○ Eagle Scout with Palms

Theodore Roosevelt Council

Boy Scouts of America

December 2015

Eagle Scout Project: designed, constructed, and installed a handicapped-accessible vegetable garden bed for an AHRC group home housing 10+ persons with mental/physical disabilities.