Jack O'Brien, Software Developer

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Education

College of the Holy Cross

Worcester, MA

BA in Mathematics and Computer Science, GPA: 3.56,

Expected Graduation: May 2023

Honors: Dean's List First Honors (Fall 2019), Dean's List Second Honors (Spring/Fall 2022)

Chaminade High School

Mineola, NY

HS Diploma

Graduation: June 2019

Honors: National Honor Society, 4 years on Honor Roll

Skills and Relevant Coursework

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

Frameworks: ReactJS, Django, MySQL

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 (Spring 2023)

Work Experience

Department of Mathematics and Computer Science

College of the Holy Cross, Worcester, MA

Teaching Assistant and Grader

Sep 2021 - Present

- 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.

Nassau County Board of Elections

Mineola, NY

Information Technology Intern

Jun 2022 - Jan 2023

- 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.

Boy Scouts of America

Onteora Scout Reservation, Livingston Manor, NY

Assistant Program Director and C.I.T. Director

Mar 2021 - Aug 2021

- ullet 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

Mar 2020 - Aug 2020

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

Dining Services

College of the Holy Cross, Worcester, MA

Student Supervisor

Jan 2020 - Jun 2022

• Led shifts consisting of mainly underclass student workers, assisted career staff wherever required.

Student Worker

Sep 2019 - Jan 2020

• Worked in the dish room, cleaned the dining hall, and meal preparation.

Software Projects

Sorting Algorithm Visualizer

github.com/JackOBrien21/visualizer-project

Application that visualizes common sorting algorithms created using ReactJS, HTML, and CSS. The visualizer is hosted on Firebase at obriensortingvisualizer.web.app.

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.

Personal Homepage

github.com/JackOBrien21/my-website

Website for personal info with a homepage, about page, and contact page. The website was created using ReactJS, HTML, and CSS. The visualizer is hosted on Firebase at jackobriendevwebsite.web.app.

Achievements and Awards

Eagle Scout with Palms Boy Scouts of America

Theodore Roosevelt Council

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.

Vigil Honor

Order of the Arrow

Theodore Roosevelt Council - Buckskin Lodge

Oct 2019

The Vigil Honor "is the highest honor that the Order of the Arrow can bestow upon its members for service to lodge, council, and Scouting". It is given not by one's efforts, but by recognition of exceptional service to Scouting, the Order of the Arrow and Scout Summer Camp.