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 2022)

Chaminade High School

Mineola, NY Graduation: June 2019

HS Diploma

Honors: National Honor Society, 4 years on Honor Roll

Work Experience

Department of Mathematics and Computer Science

College of the Holy Cross, Worcester, MA

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

Teaching Assistant and Grader

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

- 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.

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.

Skills and Relevant Coursework

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

Frameworks: ReactJS, Django, Sqlite3

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)

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 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

persons with mental/physical disabilities.

Vigil Honor

Theodore Roosevelt Council - Buckskin Lodge

Order of the Arrow 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.