# CONOR MURPHY

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## EDUCATION

**University of Notre Dame**                                                                               Notre Dame, IN
*College of Engineering, B.S. Computer Science; GPA: 3.51*                                    *Aug. 2018 - May 2022*
**Relevant Coursework**: Data Structures, Systems Programming, Discrete Math, Logic Design
**In Progress**: Compilers, Theory of Computing, Programming Paradigms, Programming Challenges

**Saint Patrick High School**                                                                                 Chicago, IL
*GPA: 3.99*                                                                                          *Aug. 2014 - May. 2018*

## SKILLS

- C/C++, Unix, Python, Javascript, VueJS, MATLAB, HTML, CSS, Git, Microsoft Word, Excel, Powerpoint

## EXPERIENCE

**Chaoli Wang Lab, University of Notre Dame**                                                    Notre Dame, IN
*Undergraduate Research Assistant*                                                                *August 2020-Present*
- Incoming student research assistant working with the D3.js Javascript library to build data visualization tools
- Utilizing Notre Dame learning data to understand achievement gaps that result from students' differing backgrounds

**The Graduate School, University of Notre Dame**                                              Notre Dame, IN
*Graduate Enrollment Management Student Assistant*                                     *August 2019-May 2020*
- Handled initial review of 2019-2020 application rounds
- Designed various materials for official communication to potential applicants

**Office of the Executive Director, Center for Social Concerns, University of Notre Dame**      Notre Dame, IN
*Student Administrative Assistant*                                                            *September 2018-May 2019*
- Gathered preliminary information relevant to upcoming research proposals
- Prepared marketing and organizational materials for the Center's internal
- Completed various administrative tasks under direction from the Executive Director/Executive Assistant

**Ridgemoor Country Club**                                                                         Harwood Heights, IL
*Golf Caddie*                                                                                                      *2016 - 2019*

## PROJECTS

**Spidey.c Webserver**                                                                                  Notre Dame, IN
*CSE 20289: Systems Programming*                                                                   *April-May 2020*
- Worked with one other student to build an HTTP 1.0 webserver in C that can handle traffic in single or forking mode
- Functionality includes serving/traversing directory listings, displaying images and txt files, and running bash/Python CGI scripts
- Utilized an AWS instance to run the server permanently and accept global traffic

**CrossReference**                                                                                          Chicago, IL
*Personal Project*                                                                                             *March 2020*
- Developed a Python CLI tool to cross reference films on Letterboxd watchlists with preferred streaming services
- Gained experience in using Python libraries to handle webscraping and making API requests

**MATLAB Battleship AI**                                                                               Notre Dame, IN
*EG10112: Into to Engineering II*                                                                          *Spring 2019*
- Worked with a student team to develop attack algorithms for the board game Battleship in MATLAB
- Implemented comprehensive GUI to allow users to run tests of each algorithm and visualize results over hundreds of games at once, as well as visually represent a full game in realtime with each algorithm

**Inspectus Minimum Viable Product**                                                               South Bend, IN
*Codeseed*                                                                                                 *Summer-Fall 2019*
- Paired with a local restaurant compliance startup to develop a minimum viable product web-app
- Work conducted through student-led development group CodeSeed