LEAH PLOFCHAN

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EDUCATION=

UNIVERSITY OF NOTRE DAME

College of Engineering, Computer Science

GPA: 3.51/4.00

- Naval ROTC National Scholarship Recipient
- College of Engineering's Dean's List

UNIVERSITY COLLEGE DUBLIN

College of Science, Computer Science

University of Notre Dame Study Abroad Program

Notre Dame, IN August 2014 – May 2018

Dublin, Ireland August 2016 - December 2016

PROJECTS

GRAPHICAL ANALYSIS STATISTICS PROGRAM

Team Member

Notre Dame, IN Spring 2016

- Used QT Creator & C++ to generate an interactive GUI for 2016 Presidential Election poll results
- Learned the necessary skills to combine multiple lessons from the semester (shell scripting, C++ Object-Oriented Programming, & the QT Creator IDE) into one project

PASSWORD CRACKER

Notre Dame, IN

Partner

Spring 2016

- Distributed computing project in Python that harnessed multiple machines to brute-force crack approximately 10,000 passwords
- Created a work queue application that coordinated workers running on different machines to improve speed of program

NETWORKING PROJECT

Partner

Notre Dame, IN
Spring 2016

• Created an HTTP client and server in Python using sockets that would communicate through low-level system calls

Built a client to make requests to a server that supported directory listings, static files, & CGI scripts

ACADEMIC HIGHLIGHTS

NAVAL RESERVE OFFICERS TRAINING CORPS PROGRAM

Second Class Midshipman

Notre Dame, IN August 2014 – Present

- Participated in academics, leadership, physical fitness, and community outreach to prepare for a career as a future Naval Officer
- Led the steering committee that organized the annual Naval Leadership Weekend which included over 500 students & dozens of military leaders nationwide
- Created the current Naval ROTC website using HTML/CSS
- Trained with the Marine Corps & the surface, air, & submarine Naval communities in Summer 2015
- Worked alongside the crew on board the USS Maine, a SSBN submarine, in Summer 2016

THINKCHICAGO Chicago, IL
Participant Summer 2016

• Accepted into a highly selective program designed to grow Chicago's tech scene

Presented a tech solution that addressed the lack of access to computer education in underserved Chicago communities

SOCIETY OF WOMEN ENGINEERS

Member

Notre Dame, IN

August 2014 - Present

Promoted the field of engineering to female students on campus

Assisted in the success of the SWE 2015 Region H Conference

UNIVERSITY OF NOTRE DAME'S CENTER FOR SOCIAL CONCERNS

Notre Dame, IN

Tutor
 Tutored high school students in mathematics once a week

August 2014 – Present

Participated in week-long service project in the Appalachian region of West Virginia

HONORS & SKILLS

ACADEMIC HONORS: Notre Dame College of Engineering's Dean List, Naval ROTC Four-Year National Scholarship, American Legion ROTC Gold Award for Military Excellence, Navy Veterans Award SKILLS (COMPUTER LANGUAGES): C/C++ Programming, Python, Shell Scripting, LabVIEW, MATLAB