LEAH PLOFCHAN

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EDUCATION

UNIVERSITY OF NOTRE DAME   Notre Dame, IN
College of Engineering, Computer Science   August 2014 – May 2018
GPA: 3.51/4.00
- Naval ROTC National Scholarship Recipient
- College of Engineering's Dean's List

UNIVERSITY COLLEGE DUBLIN   Dublin, Ireland
College of Science, Computer Science   August 2016 - December 2016
- University of Notre Dame Study Abroad Program

PROJECTS

GRAPHICAL ANALYSIS STATISTICS PROGRAM   Notre Dame, IN
Team Member   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   Notre Dame, IN
Partner   Spring 2016
- Created an HTTP client and server in Python using sockets that would communicate through low-level system calls
- Built a client to made requests to a server that supported directory listings, static files, & CGI scripts

ACADEMIC HIGHLIGHTS

NAVAL RESERVE OFFICERS TRAINING CORPS PROGRAM   Notre Dame, IN
Second Class Midshipman   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   Notre Dame, IN
Member   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   August 2014 – Present
- Tutored high school students in mathematics once a week
- 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