Sophie Lancaster

Email: slancas1@nd.edu | **Website:** sophjo.myportfolio.com| **Cell:** (574) 453-8530
Address: 907 Sunday Lane Winona Lake, IN 46590

EDUCATION

Northwestern University	Evanston, IL
Master of Science in Engineering Design Innovation	June 2021
University of Notre Dame	Notre Dame, IN
Major: Bachelor of Science in Computer Science	May 2019
Minor: Engineering Corporate Practice GPA 3.64/4.00, **Honors:** Upsilon Pi Epsilon, Dean's List Spring 2018	
Notre Dame London Program	London, England
Studied Integrated Business and Engineering and Sustainability	Summer 2016

INTERNSHIP AND RESEARCH

Verizon   Ashburn, Virginia
IT Data Analytics Intern   June 2018-August 2018
- Developed a more efficient pricing process by utilizing Python and Verizon's Enterprise data tools
- Automated the comparison of external invoices and internal billing data using Python screen scraping

National Science Foundation   Budapest, Hungary
Summer Researcher, International Research Experiences for Students (IRES)   May 2017-August 2017
- Researched machine learning and neural networks using TensorFlow and Python at the Pázmány Péter Catholic University under the leadership of András Horvath and Michael Niemier
- Collaborated with a research partner to investigate the implications of removing the fully connected layer from convolutional neural networks (CoNNs) and implementing locality-sensitive hashing in CoNNs

WORK EXPERIENCE

Department of Computer Science and Engineering   Notre Dame, IN
Teaching Assistant   August 2018-May 2019
- Performed academic tutoring, provided assistance to professor, and monitored assessments for CSE 20232 (C/C++ Programming) and CSE 30332 (Programming Paradigms)

Office of Outreach and Engagement Recruitment   Notre Dame, IN
NDignite Connection Program Assistant   August 2017-May 2019
- Assisted with NDignite Connection which is a leadership program aimed specifically at top-performing students in grades 7 and 8 by providing feedback to students and by helping to create the curriculum

PROJECT EXPERIENCE

Department of Computer Science and Engineering   Notre Dame, IN
Human Computer Interaction, team member   January 2019-May 2019
- Created a web application so that our target users could find recipes and plan meals more efficiently

Social Sensing, team member   January 2018-May 2018
- Generated a model that aggregates multiple types of data to predict the Best Picture winner of the Oscars using Python, the genetic algorithm and a random forest classifier

LEADERSHIP & ACTIVITIES

Girls Who Code   Notre Dame, IN
Club Member   August 2018-May 2019
- Taught girls at Penn High School how to code by guiding them through the creation of a Python chatbot

Society of Women Engineers (SWE)   Notre Dame, IN
Tech Team Co-Leader   August 2017-May 2018
- Partnered with the community of South Bend to bridge the digital divide by installing solar-powered WiFi pavilions in underserved areas of the city
- Led the tech team by presenting previous year's project at national SWE conference, filling out group paperwork, setting up meetings with industry partners, and facilitating teamwork at group meetings

SKILLS

Computer: Microsoft Office, Unix, C/C++, Python, TensorFlow, Scheme, Java, JavaScript, x86, PHP, HTML, SQL
Language: Sufficient in Spanish
Interests: Traveling, cooking, fitness, socializing, family time, music