Sophie Lancaster

Email: slancas1@nd.edu | **Website:** slancas1.github.io | **Cell:** (574) 453-8530

Home Address
907 Sunday Lane
Winona Lake, IN 46590

Campus Address
1855 Vaness St., Apt. 4102
South Bend, IN 46637

EDUCATION

University of Notre Dame — Notre Dame, IN
Bachelor of Science in Computer Science — May 2019
GPA 3.62/4.00

University of Notre Dame — London, England
Studied Integrated Business and Engineering and Sustainability — Summer 2016

INTERNSHIP AND RESEARCH

Verizon — Ashburn, Virginia
IT Data Analytics Intern — June 2018-Present

- Used Python and Verizon's Enterprise data tools to improve the efficiency of the pricing process
- Used Python and screen scraping libraries to automate the process of comparing external invoices with internal billing data

National Science Foundation — Budapest, Hungary
Summer Researcher — May 2017-August 2017

- International Research Experiences for Students (IRES)
- 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
- Worked 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

Office of Outreach and Engagement Recruitment — Notre Dame, IN
NDignite Connection Program Assistant — August 2017-Present

- NDignite Connection is a leadership program aimed specifically at top-performing students in grades 7 and 8
- Provide feedback and create curriculum for the students participating in the program

McGlinn Hall — Notre Dame, IN
Hall Clerk — August 2016-May 2018

- Utilize technical skills by operating basic Microsoft Office applications to assist hall rector in organizing hall emails and weekly news

PROJECT EXPERIENCE

University of Notre Dame — Notre Dame, IN
Social Sensing — January 2018-May 2018
Oscar Best Picture Winner Predictor, team member (3 members)

- Used Python and the genetic algorithm and random forest classifier to create a model that aggregates multiple types of data to predict the Best Picture winner of the Oscars

Theory of Computing — January 2018-May 2018
Modeling Backreferences and NP-Completeness, team member (3 members)

- Used Python to create a grep application that matches strings including backreferences and creates an extension to show that including backreferences makes this application NP-complete

LEADERSHIP & ACTIVITIES

Society of Women Engineers (SWE) — Notre Dame, IN
Tech Team Co-Leader — August 2017-May 2018

- Worked with the community of South Bend to bridge the digital divide by installing solar-powered WiFi pavilions
- 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, SQL
Language: Sufficient in Spanish

INTERESTS

Traveling, cooking, fitness, socializing, family time, music