

Sophie Lancaster

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EDUCATION

University of Notre Dame

Major: Bachelor of Science in Computer Science

Minor: Engineering Corporate Practice

Notre Dame, IN
May 2019

GPA 3.62/4.00, Honors: Dean's List Spring 2018

Notre Dame London Program

Studied Integrated Business and Engineering and Sustainability

London, England

Summer 2016

INTERNSHIP AND RESEARCH

Verizon

IT Data Analytics Intern

Ashburn, Virginia
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

Summer Researcher, International Research Experiences for Students (IRES)

Budapest, Hungary
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

Teaching Assistant

Notre Dame, IN
August 2018-Present

- Performed academic tutoring, provided assistance to professor, and monitored assessments for CSE 20232 (C/C++ Programming)

Office of Outreach and Engagement Recruitment

NDignite Connection Program Assistant

Notre Dame, IN
August 2017-Present

- Assisted with NDignite Connection which is a leadership program aimed specifically at top-performing students in grades 7 and 8
- Provided feedback and created curriculum for the students participating in the program

PROJECT EXPERIENCE

Department of Computer Science and Engineering

Social Sensing, team member

Notre Dame, IN
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

Theory of Computing, team member

January 2018-May 2018

- Created a grep application that matches strings including backreferences then shows that including backreferences makes this application NP-complete

LEADERSHIP & ACTIVITIES

Society of Women Engineers (SWE)

Tech Team Co-Leader

Notre Dame, IN
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

Language: Sufficient in Spanish

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