Sophie Lancaster

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EDUCATION

University of Notre Dame Notre Dame, IN

Major: Bachelor of Science in Computer Science May 2019

Minor: Engineering Corporate Practice GPA 3.63/4.00, **Honors:** Dean's List Spring 2018

Notre Dame London Program London, England

Studied Integrated Business and Engineering and Sustainability

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

Summer 2016

Teaching Assistant

August 2018-Present

• Performed academic tutoring, provided assistance to professor, and monitored assessments for CSE 20232 (C/C++ Programming) and CSE 30332 (Programming Paradiams)

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 by providing feedback to students and by helping to create the curriculum

PROJECT EXPERIENCE

Department of Computer Science and Engineering

Notre Dame, IN

Database Concepts, team member

August 2018-December 2018

 Created a web application so that students can get and make study abroad travel recommendations 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-Present

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

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