

Tanner Waltz

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EDUCATION

University of Notre Dame

Bachelor of Science in Computer Science

Supplemental Major in Applied and Computational Mathematics and Statistics

GPA: 3.95 | Dean's Honors List Fall 2018 - Spring 2020

Notre Dame, IN

May 2022

Notre Dame Rome Engineering Program

Selected to complete six weeks abroad taking two engineering courses

Rome, Italy

Summer 2019

EXPERIENCE

Intelligent MicroSystems Lab – Dr. Siddharth Joshi

Research Assistant

Notre Dame, IN

Fall 2019 - Present

- Analyzed security vulnerabilities in common IOT System-on-Chips by designing neural networks which test the ability to perform novel wireless side-channel attacks, using Keras and TensorFlow with Python
- Collaborated with other laboratory members to develop concepts and revise papers for publication
- Further improved accuracy of attacks over Summer 2020 while continuing research, meetings, and presentations

Computer Science for Good

Websites for Nonprofits Project, Team Member

Notre Dame, IN

Fall 2019 - Present

- Communicated with local nonprofit organizations to design and construct modern informational websites using HTML, CSS, and JavaScript, as well as Bootstrap
- Met consistently with team members to present progress, assign duties, and form timelines

Carroll Hall

Signature Event Commissioner

Notre Dame, IN

Fall 2019 - Present

- Planned and orchestrated production of the hall's largest public event
- Led peers to assist in preparation and supervised execution of event with over 300 attendees

Woodstock Club

Special Events Waiter

Indianapolis, IN

Summer 2018

- Received orders and delivered food and beverages to guests in an upscale and fast-paced environment

PROJECTS

IBM IrishHacks Hackathon 2019

- Worked with a team of 4 over 48 hours to design a Chrome extension utilizing Watson Discovery News that, when the webpage is a news article, suggests similarly-themed articles from other sources with differing viewpoints
- Team took 1st Prize, Best Overall Project out of 75 total participants

St. Mary's College Data Science Hackathon 2020

- Collaborated with a team of 3 over 36 hours to build a recommender system using TensorFlow that determines a user's interest in TV shows and movies based on watch history and preferences
- Team took 2nd Prize over 12 college teams from the Midwest, as well as two teams from a local tech company

ND Data Competition Fall 2020 (In Progress)

- Working with a team of 5, analyzing and testing a provided data set to generate meaningful and unique insights
- Preparing to present findings to two Notre Dame professors

ACMS 30600 Regression Data Analysis Project (In Progress)

ACTIVITIES

Interhall Indoor Volleyball, Team Captain, 2019-2020 | Tournament Finalist, 2019

Juggling Club, Vice-President, 2020 | Member, 2018-2020

Math Club, Member, 2018-2020

TECHNICAL SKILLS

Languages: C/C++, Python, R, MATLAB, HTML/CSS/JavaScript, Verilog, LaTeX

Programs: TensorFlow, Bootstrap, Git, Microsoft Word, Excel, and PowerPoint, Unity