

# Tom Henry

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## EDUCATION

### University of Notre Dame Notre Dame, IN

B.S., Computer Science – GPA: 3.81

Fall 2019 – Spring 2023 (expected)

#### Relevant Coursework

- Data Structures, Logic Design, Discrete Mathematics, Linear Algebra, Systems Programming, Computer Architecture

#### Honors/Awards

- Dean's List
  - Represented the top 30% of the College of Engineering
- Stephan Saunders Memorial Award
  - Awarded to a freshman who best displays a strong sense of spirit, faith, dedication to academics, enthusiasm for athletics, and positive influence on their dorm community.

## EXPERIENCE

### Misinformation Early Warning System (MEWS) Notre Dame AI Lab

Software Engineering Intern/Spring 2021 - present

- Charged with enhancing optical character recognition, image object detection, image manipulation, and image similarity tasks to help detect social media misinformation trends in Indonesia
- Integrated a distributed task manager to increase efficiency of project pipeline.
- Contributed to weekly meetings with USAID's advancing media literacy team

### Program Manager – Notre Dame Preternship Notre Dame, IN

Program Manager/Spring 2021

- Managed two teams of 3-4 programmers in the design, plan, and execution of software projects for industry representatives from Google and IBM
- Led weekly scrums, sprints, and code reviews for both teams

### Pariveda/A2D Software Engineering Intern Chicago, IL

Software Engineering Intern/Winter 2021

- Implemented a cross platform application using React Native to assist addicts with their healing process utilizing A2D's addiction curriculum.
- Developed platform to connect addicts with addiction support counselors.

### Notre Dame Department of Technology Notre Dame, IN

Board Member/Fall 2020–Spring 2021

- Tasked with creating and implementing creative and effective technology solutions for the Notre Dame community.
- Collaborated with University faculty and staff to improve learning management systems across campus.

### Teachers Assistant, Data Structures Notre Dame, IN

TA/Spring 2021

- Focused on facilitating student understanding of material for a Data Structures course taught in C++.
- Assigned office and lab support hours to help lead students to excel in the course.

## PROJECTS

### Vendor Analysis Dashboard Fall 2020

Software Engineer/Data Structures Preternship

- Developed, implemented, and tested an application to score vendors and produce data visualizations in Python for decreasing overhead and increasing leverage with suppliers for an external industrial representative from SpaceX.

### Chicago Crime Visualized Spring 2020

Software Engineer/Individual Project

- Independently developed and tested a map in Python illustrating the information and location of specific crimes occurring in the greater Chicagoland area over variable time ranges.



## Activities

### Notre Dame Data Club

Notre Dame, IN

Data Science

- Created a content-based movie recommendation system using a large dataset from IMDB and Wikipedia using Python

### FOD Detection Research

Notre Dame, IN

Project Manager, Student

International Business Council

- Nominated by Notre Dame's largest student organization to lead a team of engineers and business students in delivering a design for an optimal foreign object detection system for Pratt & Whitney.
- Managed and coordinated weekly research tasks for a team of 8 engineers.

### Cybersecurity Case Study

Notre Dame, IN

Team Member, Student

International Business Council

- Formulated and presented a short-term and long-term solution for a cybersecurity breach case study. Presented to PricewaterhouseCoopers in Chicago, IL.

## SKILLS

**Languages:** C++ (2 Years), Python (2 Years), Java (2 Years), C (1 Year), Verilog (1 Year)

**Applications:** Microsoft Excel, Microsoft Power Point

## Interests

Performing stand-up comedy, Lacrosse, Chicago sports, BBQ