

# George Perry

gperry@nd.edu | 513-500-4793 | <https://www.linkedin.com/in/georgeperry1617> | <https://github.com/george-perry>

214 Sorin Hall, Notre Dame, IN | 7915 Shelldale Way, Cincinnati, OH

## EDUCATION

---

### University of Notre Dame, Notre Dame, IN

May 2024

Bachelor of Science, Computer Science | Minor in Bioengineering | GPA: 3.71

### St. Xavier High School, Cincinnati, OH | GPA: 4.0 | ACT: 36

May 2020

## SKILLS AND INTERETS

---

*Technical:* Python, C, C++, C#, JavaScript, Linux/Unix, Git, Arduino, Verilog, MATLAB, Microsoft Products

*Activities & Awards:* Club Water Polo, Notre Dame Club of Cincinnati Scholarship, National Honors Society

*Interests:* Swimming, League of Legends, AI & Biotechnology, Latin, Alternative/Indie Music, Volunteering/Service Work

## EXPERIENCE AND PROFESSIONAL DEVELOPMENT

---

### University of Notre Dame – Security and Software Engineering Lab Research Assistant

August 2022 – Present

- Assisted in finding ways to represent code for machine learning based vulnerability detection, with a goal to see which representation (e.g., AST, token, graph) or combinations of representations perform best

### University of Notre Dame - CS4GOOD Project Team Leader

January 2022 - Present

- Coordinated development of a reliable and maintainable website for the non-profit Motels4Now which provides housing for homeless people in the South Bend area
  - Used Google Sites collaboratively to improve the visual and functional elements of the website
  - Responsible for training, assigning tasks, and regularly scheduling meetings with 5 teammates

### London Computer Systems (Rent Manager) – API Software Development Intern

May 2022 – August 2022

- Assisted in developing custom projects for company clients through using C# API development tools
  - Developed a project for a real estate agency – given a property address and date, gather corresponding tenant data from API (email, name, etc.) and send emails notifying of an upcoming house inspection
  - Wrote PowerShell script to migrate codebase from Perforce to Git, also migrated from .NET Framework to Core
  - Gained a deeper understanding of the software development process, data analytics, and web-interface interactions

## PROJECTS

---

### Personal Project

Summer 2022

- Movie Recommender Website: [movie-recommendations-site.herokuapp.com/](http://movie-recommendations-site.herokuapp.com/)
- Created a Python web application that uses machine learning to recommend movies based off user inputted criteria
  - Developed a web scraper using Pandas and BeautifulSoup to save data from IMDb into a CSV file, then used Scikit-learn to transform the data into similarity scores which are used to output similar movies

### Personal Project

Summer 2022

- Portfolio Website - [george-perry.github.io/portfolio-website/](http://george-perry.github.io/portfolio-website/)
- Created a website to display work/project experience, skills, and more
  - Used HTML and CSS elements to create a flowing and easy to read design

### Data Structures, University of Notre Dame

Spring 2022

- Final Project – DNA Storing/Searching: Collaborated with a group to create a program which allows its users to search for a specific mutation, pattern, or genetic disorder within specific DNA strands
- Used C++ to implement efficient data structures/algorithms, and used Github for collaborative version control support
  - Utilized a bitset to store DNA bases for efficient memory use, used the Boyer-Moore algorithm for pattern matching