

George Perry

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206 Zahm 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: 3.74

Relevant Courses: Fundamentals of Computing, Discrete Math, Embedded Systems & The Internet of Things, Systems Programming, Data Structures, Logic Design, Engineering Programming, Linear Algebra & Differential Equations, Calculus 1-3, Physics 1-2

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

May 2020

SKILLS AND INTERETS

Technical: C, C++, C#, Python, Java, Linux, Unix, Git, Arduino, Verilog, MATLAB, SOLIDWORKS, Microsoft Products

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

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

EXPERIENCE AND PROFESSIONAL DEVELOPMENT

London Computer Systems – API Services Development Team Intern

May 2022 - Present

- Assisted in developing custom reports for company clients through using C# API development tools
 - Gained a deeper understanding of the software development process, data analytics, and web-interface interactions

University of Notre Dame - CS4GOOD Project Team Member

January 2022 - Present

- Manage database and assist in developing 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

A Tavola Trattoria & Bar, Madeira, OH

May 2021 – August 2021

Server/Kitchen Service

- Provided exceptional customer service & food preparation/presentation in a fast paced, detail-oriented team environment, responsible for training new employees

Inspiring Scientists – Community Outreach Program Creator

Summer 2019 – Summer 2020

- Created a community outreach program to expose underprivileged children to the fun side of STEM. Scheduled, developed, and led all activities and experiments

PROJECTS

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

Fundamentals of Computing, University of Notre Dame

Fall 2021

- Final Assignment/Project: Created a program in which the user could enter up to 20 different words and a fully solved crossword puzzle would be displayed. Also created a program using a GUI which functioned as a playable Connect 4 & Tic Tac Toe game
 - Significantly improved understanding of memory allocation and dynamic programming through coding these games in C

Embedded Systems & The Internet of Things, University of Notre Dame

Spring 2021

- Final Project - Arduino Based Fan: Collaborated with a partner to design an Arduino based handheld-fan which served to cool off its user on a hot summer day - fan speed was proportional to the temperature read by a sensor or could also be controlled manually using a potentiometer. An adjustable timer could be used to turn off the fan, and remaining time and speed intensity shown on an LCD
 - Gained a further understanding of microcontroller-based applications and software through coding in the Arduino compiler and use of components such as transistors, switches, and sensors