

EDUCATION	UNIVERSITY OF NOTRE DAME NOTRE DAME, IN Bachelor of Science in Computer Science GPA: 3.93 <i>Major GPA: 4.0</i> Dean's List all semesters, VP of Tau Beta Pi Engineering Honor Society (2020 – 2021)	MAY 2021
TECHNICAL SKILLS	PROFICIENT IN: Python, C, SQL, HTML, JavaScript, C++, Git FAMILIAR WITH: Java, Express, PHP, CSS, MATLAB, MEL, Verilog, shell scripting	
INTERNSHIPS	FORENSICS TECHNOLOGY INTERN ERNST & YOUNG <ul style="list-style-type: none">Assisted in the development of a client-facing web applicationHelped implement an automatic file upload feature on an internal web applicationDevised and presented a marketing strategy for a third-party risk management solution SOFTWARE DEVELOPMENT INTERN OPTUM <ul style="list-style-type: none">Coded in Java and JavaScript to create an algorithm which matches students to a certain number of different career sessions with limited seats based on the students' preferences in order to help automate a nonprofit's process for preparing for one of their frequent eventsCollaborated with four interns to implement the solution as a full stack web application hosted on Azure and communicated with the client weekly to get continuous feedbackCreated the entire user guide for the application and taught the client how to use the application when delivering the product on siteThe application is being used by the nonprofit for each of their Career Day events and resulted in saving the small staff 30+ hours of work yearly	JUL – AUG 2020 JUN – AUG 2019
PROJECTS	SOLO PROJECTS <ul style="list-style-type: none">Created a personal website, written in HTML, JavaScript, and CSS, focused on producing a clean, intuitive interface which works fully on any screen sizeCreated an imaginary pet adoption web application using the Express framework, Pug, the Google Maps API, and two JSON files in the back endUsed C to implement 3 versions of an interactive Mandelbrot fractal visualizer to highlight the performance benefits of concurrency and load balancingUtilized Python to extract data on the gender breakdown of multiple majors at Notre Dame, visualized the data with a Jupyter Notebook, and analyzed the data to find the trend of the gender breakdown over time for computer scienceCreated a 3D fractal generator by writing a MEL script to be executed within Autodesk Maya which displays a GUI to let users create and interact with infinite different 3D fractal modelsUtilized C++ and the "gfx" graphics library to recreate "Snake" and to implement invented "Avoid the Balls" where the user's cursor must evade balls of random sizes and velocities GROUP PROJECTS <ul style="list-style-type: none">Created a web application, with separate User and Admin views, integrated with a MySQL database via PHP as a solution for a nonprofit organization's volunteer signupsSimulated a pharmacy with C++, utilizing arrays and queues to track pill type, quantity, and expirationCreated a C++ implementation of the Heavy-Hitter algorithm and used the implementation to analyze 3.5 million pieces of real-world data in under 20 seconds	
EXPERIENCE	TEACHING ASSISTANT UNIVERSITY OF NOTRE DAME <ul style="list-style-type: none">TA for Fundamentals of Computing (FA19), Data Structures (SP20), & Theory of Computing (FA20)Work with students to clarify misconceptions, effectively debug, and help them understand data structures, C++ concepts, and the theoretical side of computingGive the students constructive feedback to increase the accuracy and efficiency of their	AUG 2019 – PRESENT