Danielle Croft

6 Fischer Graduate Res Apt 1A
Notre Dame, IN 46556
(719) 822 - 3039
daniellec0321@gmail.com / dcroft@nd.edu
GitHub username: daniellec0321

EXPERIENCE

University of Notre Dame, South Bend, IN – *Teaching Assistant for Operating Systems*
August 2023 – Present
Teaching, helping, and grading a junior level computer science class that focuses on the structure and workings of operating systems.

USAA, San Antonio, TX – *Software Engineering Intern*
May 2023 – August 2023
Joined a team that worked on modernizing API calls within the call center. Specifically worked on internal permissions of the system to increase the amount of information delivered to the customer.

University of Notre Dame, South Bend, IN – *Teaching Assistant for Systems Programming*
January 2023 – May 2023
Taught, helped, and graded a sophomore level computer science class that focused on Bash, Python, and C programming.

Johnson & Johnson, Milpitas, CA – *Project Intern*
May 2022 – August 2022
Focused on creating a simple algorithm for approximating an S-curve to apply to an FPGA within a cataract machine. Algorithm is in the process of getting a patent.

University of Notre Dame, South Bend, IN – *Head Teaching Assistant for Logic Design*
January 2022 – December 2022
Assisted students taking a sophomore level computer engineering class. Managed the TAs that assisted the Logic Design class.

EDUCATION

University of Notre Dame, South Bend, IN – *B.S. in Computer Science*
August 2020 – May 2024 (expected)
Current GPA: 3.805

PROFICIENT IN

C / C++
Python
Java / JavaScript
MatLab
LabView
Verilog
SQL

AWARDS

Deans's List for Spring 2021 and Spring 2022: GPA in top 30% of the Engineering School (3.94 and 3.87)

National Merit Scholar: Chosen based on PSAT score (1500)

Officer Spouses' Club Scholarship: Awarded to children of active US military officers

Tailhook Scholarship: Awarded to descendants of members of the US Navy

PROJECTS & PATENTS

Patent for Algorithm to Estimate S-Curve in Review: Created during my internship with Johnson & Johnson. A simple algorithm designed to be used on an FPGA without taking up much space in memory.

Genuine Signature Recognition CNN: A Siamese neural network designed to recognize if specific signatures are forged or genuine. Created as a final project for Neural Networks course at Notre Dame. Project is on a public repository on my GitHub.

Peer-to-Peer Hashtable: Shared hashtable between multiple clients that bypass the need for a central server. Created as a final project for Distributed Systems course at Notre Dame. Project is on a public repository on my GitHub as well as my project partner's website: https://begloff.com/posts/p2phashtable

Database for Cultivate Food Rescue: Built a database for non-profit company "Cultivate Food Rescue" located in South Bend. Created as a semester project for Database Concepts course at Notre Dame.

Wordle Solver: Created a web app with Python Flask that gives recommendations on what words to play with the popular word game "Wordle". Created as a final project for Data Structures course at Notre Dame. Project is on a public repository on my GitHub.