Danielle Croft

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https://github.com/daniellec0321

EXPERIENCE

University of Notre Dame, South Bend, IN – *Teaching Assistant for Systems Programming*
January 2023 – May 2023, January 2024 – May 2024
Taught, helped, and graded a sophomore level computer science class that focused on Bash, Python, and C programming.

University of Notre Dame, South Bend, IN – *Teaching Assistant for Operating Systems*
August 2023 – December 2023
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.

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
Graduated *cum laude*
Cumulative GPA: 3.810

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.

Personal Website: Created a simple personal website using React. Details my education, experience, and projects. Link to the website is https://danielle-croft.com.

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. Built a webpage that displayed data for the company's deliveries that year. Created as a semester project for Database Concepts course at Notre Dame.