Benjamin F. Merrick

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Education

University of Notre Dame   **Notre Dame, IN**
Bachelor of Science in Computer Science (BSCS)   **May 2021**
- Major GPA: 3.668, Cumulative GPA: 3.268
- Courses: Algorithms, Software Development for UAS, Programming Paradigms, Systems Programming, Computer Security, Data Structures, Operating Systems, Theory of Computing, Human Computer Interaction

Academic Honors: Americo Darin 2019-2020 Engineering Prize - One of three College of Engineering students recognized for academic achievement in the first two years of studies.

Technical Projects

- *Programming Paradigms:* Built a web-based application which embraced the Express framework, Node.js, and client and server-side code to provide users with a simple database for the upcoming Senate election candidates.
- *Operating Systems:* Generated multiple C-based programs focused on learning the principles of operating systems such as physical and virtual memory, threads and locks, paging and segmentation, and CPU scheduling.
- *Systems Programming*: Created a series of C-based programs which worked together to establish a network server platform capable of supporting numerous host connections.
- *Data Structures*: As a member of a team, developed a Pharmacy Simulator in order to stock shelves, conduct inventory, fill prescriptions, and proactively inspect medications prior to expiration in accordance with Institute of Safe Medication Practice Standards.

Technical Experience

REU Drone Response   **South Bend, IN**
Summer Intern   **Summer 2020**
- Developed Angular-based web application in a small-team environment with the purpose of using drone technology to aid firefighters with rescue missions, building fires, etc.
- Integrated the MapBox and AirMap API into an interface designed for the pilot to create drone flight paths, identify and label significant map data points, and monitor drone status and flight alerts.

Codeverse Studios, LLC   **Wilmette, IL**
Instructor   **Summer 2019**
- Taught KidScript, a proprietary language based upon Python, Java, and C which focuses on developing a child's primary understanding of object-oriented programming, to children ages 6-13 with an average class size of 20.
- Recruited new students through trial class which allowed prospective students to learn basic coding principles, share their first game with classmates, and discuss their overall experience with parents.

Leadership Experience

St. Edward's Hall Vice President   **June 2019-June 2020**
- Planned, managed, and ran hall events such as formals and trips for residents ranging from 20-200 students.
- Maintained, managed, and developed the St. Edward's website through the WordPress platform.

Student International Business Council – PwC Team Member   **Fall 2019-Present**
- Operated on a team with 10 students to research, design, and present a solution to PricewaterhouseCoopers regarding a hypothetical cyber security consulting case.

Triad Academy Camp for Dyslexic Youth   **Summers 2018, '17**
- Served as a lead counselor that developed and led youth enrichment activities for children ages 7 to 10.

Notre Dame Men's Club Lacrosse Team   **Fall 2017-Present**
- Close defender on a tight-knit community of ND men. Won the GLLL championship in Spring 2018.

Forsyth Country Day School (FCDS)   **June 2017**
- Marketing Consultant focused on developing school's digital branding.

West Point Military Academy Summer Leadership Experience   **August 2016**
- Week-long immersion in academic, military, and social life of West Point.
- Awarded the Excellence Award for Electrical Engineering.

Skills and Interests

Angular Framework, HTML, CSS, JavaScript, C/C++, Java, Python, Shell Scripting, Arduino, Unix, MATLAB, Gitlab/GitHub, Microsoft Office, Social/Multimedia Platforms.