

# 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: 3.7, Cumulative GPA: 3.3
  - Courses: Data Structures, Algorithms, Operating Systems, Theory of Computing, Systems Programming, Computer Security, Software Development for UAS, Programming Paradigms, Human Computer Interaction
  - Academic Honors:* Amerigo Darin 2019-2020 Engineering Prize – 1 of 3 College of Engineering students recognized for academic achievement in first 2 years of studies.
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## Technical Languages, Skills, and Projects

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

- **Gym Availability Tracker:** Creating full-stack system to track and notify time-slot availability for university gym. Involves scraping university site, formatting data in custom Python/Flask API hosted in Google App Engine, and retrieving data for display on Angular application.
  - **Personal Website:** Designed and developed personal website from ground up using Angular framework to demonstrate skills, display projects, and share hobbies.
  - **Multi-Client Server Site:** Constructing series of C-based programs which established a network server platform capable of supporting numerous client connections.
  - **OS Concept Challenges:** Composed C-based programs focused on learning operating systems principles such as physical and virtual memory, threads and locks, paging and segmentation, and CPU scheduling.
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## Professional Experience

### REU Drone Response

South Bend, IN

*Summer Intern*

Summer 2020

- Developed Angular-based web application in small-team environment with purpose of using drone technology to aid firefighters with rescue missions, structural fires, and other disaster-related terrain surveillance.
- Integrated MapBox and AirMap APIs into interface designed for pilot to create drone flight paths, identify and label significant points of interest, and monitor drone status and flight alerts.

### Codeverse Studios

Wilmette, IL

*Instructor*

Summer 2019

- Taught 20+ children ages 6-13 object-oriented programming fundamentals using KidScript, language based upon Python, Java, and C.
  - Recruited new students through trial class which allowed prospective students to learn basic coding principles, share their first game with classmates, and discuss their experience with parents.
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## Leadership Experience

### St. Edward's Hall Vice President

June 2019-June 2020

- Planned, supervised, and ran hall events such as formals and trips for 20-200 resident participants.
- Maintained and managed the [St. Edward's Hall website](#) through WordPress platform.

### Student International Business Council – PwC Team Member

Fall 2019-Present

- Participated on 10-person team to research, design, and present solution to hypothetical cyber security case.

### Triad Academy Camp for Dyslexic Youth

Summers 2017, 2018

- Served as lead counselor and developed and led youth enrichment activities for children ages 7 to 10.

### Notre Dame Men's Club Lacrosse Team

Fall 2017-Present

- Played as a leading close defender on tight-knit community and won GLLL championship in Spring 2018.

### Forsyth Country Day School

June 2017

- Marketing consultant focused on developing school's digital branding.

### West Point Military Academy Summer Leadership Experience

August 2016

- Week-long immersion program; awarded Excellence Award for Electrical Engineering.