

Benjamin F. Merrick

720 Roger Avenue, Kenilworth, IL 60043 | bmerrick@nd.edu | 201 315 6811 | [linkedin.com/in/bfmerrick](https://www.linkedin.com/in/bfmerrick)
bmerrick.com | github.com/bmerrick22

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 a full-stack system to track and notify time-slot availability for my university gym. Involves scraping a university site, formatting data in custom Python/Flask API hosted in Google App Engine, and retrieving the data for display on an Angular application.
 - **Personal Website:** Designed and developed a personal website from the ground up using the Angular framework to demonstrate skills, display projects, and share hobbies.
 - **Multi-Client Server Site:** Constructing a 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, a 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.