**EDUCATION**

University of Notre Dame, Notre Dame, IN

College of Engineering, Bachelor of Science in Computer Science May 2022 Science and Engineering Scholar GPA 3.84

**SKILLS**

Languages: Python, C++, C, Java, JavaScript, HTML, CSS, XML, Flutter, Dart, ARM, Verilog, MATLAB

Tools: GitHub, GitLab, SolidWorks, Arduino, Raspberry Pi, Quartus

**EXPERIENCE**

Microsoft Software Engineer Intern, Redmond, WA May 2021 – August 2021

* Collaborated with Outlook Web and Win32 teams to bring new, accessible, web-based features to the user experience. I will be returning to this team after graduating in the spring of 2022.

Microsoft Explorer InternMay 2020 – July 2020

* Collaborated with interns, Software Engineers, Program Managers, and Engineering Managers on the Outlook Win32 team to implement UX and UI updates while maintaining functionality and accessibility

Robotic Football Club, Code Team Member, Notre Dame, IN November 2018 – Present

*Code Team Lead May 2021 – Present*

* Managing a group of approximately 20 computer scientists and engineers to support the various software development projects throughout the club

*Quarterback Re-design Project August 2020* – *May 2021*

* Managed a group of code team members to program the re-deigned quarterback robot. The new QB runs a python code base on a Raspberry Pi processor and utilizes SPI and I2C communication protocols.

*Spot-Passing Project January 2019 – April 2019*

* Implemented new programming strategies for the autonomous passing abilities of the quarterback robot run on an Arduino, ultimately improving efficiency and accuracy of the robot’s passing performance
* Won the 2019 Intercollegiate Robotic Football Championship

Mathematics Tutor, Brasher Falls, NY & Notre Dame, IN June 2016 – Present

* Orchestrate one-on-one tutoring sessions in the subjects of Algebra and Calculus
* Create lesson plans specific to each student’s needs and work directly with students to maximize understanding of the given course material

**VOLUNTEER WORK**

Pariveda Solutions Software Engineer December 2020 – February 2021

* Opportunity to work with the CEO of FromA2D, create a development plan online platform for addiction recovery curriculum, program management experience

Matriculate Advising Fellow, Notre Dame, IN January 2019 – May 2020

* Advised high-achieving, low-income high school students through the college admissions, scholarship applications, and enrollment processes

Robotic Football Outreach May 2021 – Present

* Launching new community engagement projects to teach traditionally under-represented groups in stem from the South Bend community introductory levels of software engineering

**PROJECTS**

“Golden Dorm” Hybrid Mobile App, Notre Dame, IN March 2021 – May 2021

* Designed and developed a mobile application for Android and iOS devices using Flutter/Dart with a Firebase backend
* Residential life app incorporating user authentication, calendar, chat, forum, and amenity features

Minorities in the Private Sector Website, Notre Dame, IN November 2020 – December 2020

* Collaborated with a fellow student to develop a CherryPy server, Python data library and API, and JavaScript and HTML website that allows users to easily view and interpret statistics regarding the employment rates of women and minorities in the private sector.

HTTP Networking Project, Notre Dame, IN April 2020

* Developed an HTTP web server in C as well as a Python script to generate concurrent HTTP requests to analyze the network’s latency and throughput