**Timothy Gallagher**

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**EDUCATION** **University of Notre Dame** Notre Dame, IN

Bachelor of Science in Computer Science GPA 3.76

Minor in Engineering Corporate Practices

**Notre Dame Engineering Summer 2019 Abroad** May 2019-July 2019**,** Rome, Italy

**SOFTWARE PROJECTS**

**Snake Game** December 2019

* Developed an interactive snake game using C++ utilizing multiple classes, graphical libraries, and user-defined functions
* Enabled users to play against each other in real time and compete for the high score.

**Stock Market Simulator** April 2019

* Developed an algorithm that predicted a stock’s closing price with higher accuracy than some professional algorithms.

**Maze Game**  May 2019

* Utilized Verilog to create hardware that could be implemented on an Altera Board to run an interactive maze game with visuals, sound, and real time user inputs.

**Library Catalog App** December 2017

* Developed a library catalog app that can run on Android or iOS.
* Tested the app in the school’s library with real books and students.

**ENGINEERING EXPERIENCE**

**Notre Dame Athletics Data Visualization** Notre Dame, IN

*Developer* December 2019-Present

* Developed innovative Data Visualization web pages for the Notre Dame Men’s Basketball team using JavaScript, html, and CSS, while using the d3.js library.
* Utilized data to give the Notre Dame Men’s basketball team new strategies and tactics.

**Computer Science 4 Good**  Notre Dame, IN

*Team Member* Fall 2018-Present

* Established connections with nonprofits in the Notre Dame area about potentially building a website for them.
* Developed the front-end framework for our two chosen non-profits, Imani Unidad and Chiara Home

**Abington Technology Department**  Abington, PA

Tech *Intern* June 2017-August 2017

* Assisted in building the department’s network of over 700 new laptop, desktops, and other devices.
* Managed the installation of 100s of new desktops and laptops in each of the district’s nine schools.

**LEADERSHIP**

**Notre Dame Class of 2022** Notre Dame, IN

*Class Secretary* Fall 2018-Present

* Managed the fundraising and spending of over $25,000 of the class’s budget.
* Represented the Class of 2022 in all affairs related to campus life and other concerns.
* Planned social, spiritual, and fundraising events for the class of 2022 during freshman and sophomore year.

**Dorm Community** Notre Dame, IN

*Head of Alumni Outreach, Welcome Weekend Captain, and Social Commissioner* Fall 2018-Present

* Established the first ever O’Neill Newsletter, which is used to keep the dorm’s alumni updated on dorm events.
* Developed a new way to contact alumni and obtain more donations that ever before.
* Planned and oversaw events with over 500 people and $1,000s worth of supplies.
* Built relationships between my dorm and other dorms through social events, such as dorm dances.

**SERVICE**

**Notre Dame Urban Plunge - Philadelphia** Philadelphia, PA

*Team member*November 2019-Present

* Discussed the topic of urban poverty, as well as its causes and solutions, in a seminar setting.
* Lived with, engaged in conversation with, and assisted charities in Philadelphia, such as Sarnelli House.

**Adopt a Family Christmas Initiative** Notre Dame, IN

*O’Neill Family Hall Representative* Winter, 2018-Present

* Organized methods to raise money within my dorm to buy Thanksgiving dinner, Christmas dinner, and Christmas presents for local families in need in South Bend, Indiana.

**SKILLS** C++, Java, Unix, Python, bash, html, JavaScript, CSS, C, React Native, MATLAB, Verilog Hardware Description Language, Conversational Mandarin, Processing (Animation Software), Advanced in Microsoft Excel

**INTERESTS** Basketball, Baseball, Football, Traveling, Hiking, Movies, Board Games, Golf, Ping Pong