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