# Colin J. Hartigan

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## Objective

Self-driven and resourceful computer engineering major with professional experience in collaborative fast-paced environments as a programmer. Successful solo full-stack developer: created applications with over 200,000 total downloads. Seeking a software engineering internship for May - August 2022.

## Education

**Georgia Institute of Technology | Atlanta, GA**                                    *August 2022 - Present*
Bachelor of Science in Computer Engineering                                    Expected Graduation, May 2026

**Marriotts Ridge High School | Marriottsville, MD**                                    *August 2018 - May 2022*
High School Diploma, GPA 3.97/4.00

## Skills

**Programming & Frameworks:** Python, JavaScript (React, Material UI), HTML/CSS (TailwindCSS), C++ (Arduino), Lua
**Hardware:** Raspberry Pi, Arduino
**Software:** Visual Studio Code, GitHub, Arduino IDE
**Languages:** English (native), Spanish (conversational)

## Experience

**Johns Hopkins Applied Physics Laboratory (APL)**, Laurel, MD
*Nation's largest university research center supporting U.S. government technology development programs and national priorities.*
***ASPIRE High School Intern, Space Exploration Sector***                                    *October 2021 - May 2022*
- Researched and built artificial intelligence systems utilizing weather satellite data to predict and visualize the spread of water-borne illnesses
- Leveraged multithreaded concurrent programming in Python to increase efficiency of data parsing using Pandas (data analysis library)
- Trained AI model with TensorFlow machine learning platform

***ASPIRE High School Intern, Research and Exploratory Development Department***                                    *October 2020 - May 2021*
- Wrote CNC G-code parsing and visualization software in Python for circuit-producing, additive manufacturing printer
- Filed an intellectual property disclosure at APL due to originality and utility of software as a debugging tool

**Sandy Hill Camp and Retreat Center,** North East, MD
*Regional youth outdoor summer camp focused on team building and skills development*
***Counselor***                                    *Summer 2021 & 2022*
- Supervised and led groups of 12 pre-teenagers at weeklong sleep-away camp
- Taught courses in team building, outdoor skills, music, and sports to 20-30 students

## Projects

**VALORANT Inventory Manager**                                    *September 2021 - Present*
*Third-party application for the video game VALORANT written in JavaScript and Python used to manage a user's inventory of cosmetic items. Implements additional features not found in the game's client including cosmetic randomization and a more intuitive user interface/experience.*
- 200,000+ downloads, 20%+ user retention rate, global userbase (< 10% of users reside in United States)
- Designed and built frontend using React and Material UI
- Implemented a custom application-game communication protocol using websockets (Python) and HTTP requests

## Activities & Honors

**Future Business Leaders of America Competition Awards**                                    2019 - 2022
- Computer Applications - 2nd place in state (2022), Social Media Strategies - 7th place in region (2021), Marketing - 6th in state (2019)