Colin J. Hartigan

www.colinhartigan.dev | U.S. Citizen

Education

Georgia Institute of Technology, Atlanta, GA *August 2022 - Present*
Bachelor of Science in Computer Engineering, GPA 3.58/4.0; Dean's List Expected Graduation, May 2026

- **Concentrations:** Computing hardware and emerging architectures, embedded devices
- **Relevant Coursework:** Linear Algebra, Discrete Math, Digital System Design, Object-Oriented Programming

Skills

Programming Languages: Python, JavaScript, HTML/CSS, Java, C++, Lua
Technologies: React, Next, Node.js, MongoDB, Git, Flask, OpenCV, Docker, NumPy, Tensorflow, PyTorch
Hardware: Raspberry Pi, Arduino, ESP
Languages: English (native), Spanish (conversational)

Experience

IntelliGenesis LLC, *Columbia, MD*
140-employee engineering firm providing mission-focused services to improve and advance National Security Missions worldwide
Intern *June 2023 – August 2023*

- Lead project to create voice-controlled software implementing real-time facial recognition for security cameras
- Designed and programmed website component which maps and organizes a network's internet connections' origins and destinations, providing a value-added feature desired by customers on IntelliGenesis' flagship cybersecurity product

The Hive Makerspace, *Georgia Tech, Atlanta, GA*
Student-run workspace for engineering projects
Peer Instructor *January 2023 – Present*

- Instruct and assist students in operating tools and machinery, maintain space and equipment
- Operate and maintain 3D printers, laser cutters, electronics workstations, & workshop tools

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 which utilizes weather satellite data to predict and visualize the spread of water-borne illnesses
- Leveraged multithreaded concurrent programming in Python to increase efficiency of weather data processing

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 for software created during internship 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 *2021 - 2023*
Application for the video game VALORANT used to manage a user's inventory of virtual cosmetic items. Implements additional features not found in the game including cosmetic randomization and a more intuitive user interface/experience.

- Identified community's desire for improved customization
- Developed full-stack solution as solo developer (JavaScript and Python)
- Maintain codebase and support users facing issues with app
- 300,000+ downloads, 20%+ user retention rate, global userbase (< 10% of users reside in United States)