Colin J. Hartigan

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Education

Georgia Institute of Technology, Atlanta, GA *August 2022 - Present*
Bachelor of Science in Computer Engineering, GPA 3.6/4.0; 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, C++, Assembly, Lua
Technologies: React.js, Next.js, MongoDB, Google Firebase, Git/GitHub, Docker, Flask, OpenCV, Tensorflow, PyTorch
Hardware: Raspberry Pi, Arduino, ESP development boards
Languages: English (native), Spanish (conversational)

Experience

IntelliGenesis LLC, Columbia, MD
160-employee engineering firm providing mission-focused services to improve and advance national security missions worldwide
Software Engineering Intern *June 2023 – August 2023*

- Led project to create voice-controlled software implementing real-time facial recognition for security cameras
- Redesigned and upgraded selected React components for flagship cybersecurity product's website, improving user experience and codebase maintainability
- Designed and implemented React component to map and organize a network's internet connections' origins and destinations, providing a value-added feature desired by customers

The HIVE Makerspace, Georgia Tech, Atlanta, GA
Nation's largest ECE-centered makerspace providing an accessible engineering workspace and free-to-use resources to students
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, and workshop tools
- Collaborate with peers to improve space's operational procedures, increasing overall efficiency for common tasks

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 for circuit-producing, additive manufacturing machinery
- Filed an intellectual property disclosure at APL for software created during internship due to originality and utility of software as a debugging tool

Projects

HIVE Dashboard *July 2023 - Present*
Website designed to optimize 3D printing workflows and procedures for staff at The HIVE Makerspace

- Identified shortcomings in processes for queuing, tracking, and completing 3D printing jobs
- Designed website which provides real-time print tracking and alerts for end-users, increasing production efficiency and successful print yield rates
- Implemented database to log print jobs and printer maintenance and mass cloud file storage to save print files

VALORANT Inventory Manager *2021 - 2023*
Application for the video game VALORANT used to manage a user's inventory of cosmetic items

- Identified community's desire for improved customization features and developed full-stack solution
- 300,000+ downloads, 20%+ user retention rate, global userbase (< 10% of users reside in United States)