

# Hayden Richardson

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## EDUCATION

### University Of Maryland

*B.S in Computer Engineering*

College Park, MD

*Aug. 2025 – Present*

- CS Related coursework: Object Oriented Programming I & II, Discrete Structures
- Engineering Related coursework: Intro to Engineering
- Math Related coursework: Calculus II, Differential Equations, Linear Algebra

### Chesapeake College

*General education courses*

Wye-Mills, MD

*Aug. 2024 – May 2025*

## EXPERIENCE

### Software Engineering Intern

*New Vertical Technologies*

Mar. 2023 – Aug. 2024

*Stevensville, MD*

- Assisted in creating and updating full-stack web employee/customer ticketing system used by 200+ employees/customers
- Explored the use of frameworks such as React, CodeIgniter, and Flutter to prototype 3+ client-facing applications
- Provided technical support and troubleshooting for customer hardware and software issues

### Member of Coding Team

*Kent Island High School*

Aug. 2020 – May 2024

*Kent Island, MD*

- Placed top 10 in UMD HSPC 2023
- Placed 3rd in Lockheed Martin CodeQuest 2024 in Hanover, MD
- Placed 1st in Eastern Shore Programming Competition 2024

## PROJECTS

### LED Controller | *Python, Arduino, PySerial, Discord API*

Sep. 2023

- Developed a Discord bot to control an RGB LED strip remotely
- Used Arduino and PySerial with Discord API to process real-time commands with <0.5s latency

### Digital Hall Pass Mock-up | *React, Node.js, Postgres*

Dec. 2023

- Used React and Node.js to create a basic full stack web app that acted as a hall pass for students
- Designed features to log time, destination, and origin, eliminating the need for manual tracking

### Automatic Cat Feeder | *Arduino, Embedded Systems*

Jan. 2026

- Designed and built an embedded automatic cat feeder using Arduino, a DS3231 real-time clock, and a dispensing mechanism using a servo
- Integrated a load cell with HX711 ADC to monitor bowl weight in real time and prevent overfilling through software feedback control

## TECHNICAL SKILLS

- **Languages:** Java, C++(Arduino), Python, SQL (Postgres), JavaScript, HTML/CSS, PHP
- **Frameworks:** React, Node.js, CodeIgniter, Flutter
- **Developer Tools:** Git, GitHub, VS Code, Visual Studio, Linux, Eclipse, PhpStorm
- **Libraries:** PySerial, NumPy
- **Other:** Embedded Systems, Hardware/Software Integration