

# COLE AUGUSTA

RPI - Junior in Computer Science

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## EDUCATION

### Rensselaer Polytechnic Institute (RPI)

Troy, New York, United States

Bachelor of Science in Computer Science

Aug 2022 – May 2026

- **Courses:** Algorithms, Logic-Based Artificial Intelligence, Cognitive Modeling, Operating Systems, Data Structures, Computer Organization, Principles of Software, Foundations of Computer Science

## PROJECTS

### Flip

Back-end Developer, Computer Vision

Nov 2020 – Apr 2021

- Computer Vision project to use hand movement tracking software as a replacement for scrolling through eBooks and pdfs
- Implemented MediaPipe machine learning recognition models for hand movement and gesture tracking with OpenCV
- Main back-end developer for Flip with Python and MediaPipe models

### SwiftHire

Full-stack Developer

Aug 2024 – Jan 2025

- SwiftHire is a personal web tool to help both employers and candidates find each other in one location
- SwiftHire simplifies the application process by centralizing information and using our AI-powered resume reviewer

### Laptime Simulation

Back-end, Rensselaer Motorsport

Sep 2022 – Mar 2023

- Developed computer vision scripts for digital track vision for Formula SAE endurance tracks
- Collaborated with Rensselaer Motorsport and RCOS members for development
- Used Python and OpenCV for computer vision back-end, Flask for front-end

### Honest Investor

Front-end

May 2023 – Aug 2023

- Honest Investor is a personal financing web tool to help monitor and update stock exchanges in real time with Yahoo Finance
- Primary front-end developer for the website, additionally contributing to the back-end PHP and API calls
- Hosted web server locally with an Apache server hosting HTML, CSS, and PHP in linux

## LEADERSHIP AND ACTIVITIES

### Rensselaer Center for Open Source (RCOS)

Troy, New York

Contributor

Jan 2022 – Present

- A community of motivated students at Rensselaer Polytechnic Institute who develop open source projects under the guidance of experienced instructors and student mentors.

### Rensselaer Motorsport

Troy, New York

Member

Aug 2022 – May 2022

- A Rensselaer Polytechnic Institute student organization that participates in Formula SAE.
- Formula SAE is a collegiate engineering competition hosted by the International Society of Automotive Engineers. This global event tasks student teams with designing, building, and competing formula-style cars.

### RPISec - Computer Security

Troy, New York

Member

Jan 2023 – May 2023

- RPISec is a computer security organization comprised primarily of students and alumni from Rensselaer Polytechnic Institute. Primarily an organization to provide resources for those interested in exploring the world of computer security.

## SKILLS, LANGUAGES, INTERESTS

- **Languages:** English (Native speaker)
- **Programming:** Python, C, C++, Java, Golang, Haskell, Erlang, Prolog, MIPS
- **Tools:** Git, Visual Studio Code, Canva, Microsoft Office Suite
- **Web Development:** React, Node.js, JavaScript, Flask, HTML, CSS