

COLE AUGUSTA

Rensselaer Polytechnic Institute - Computer Science/AI Concentration

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EDUCATION

Rensselaer Polytechnic Institute (RPI)

Troy, New York

Bachelor of Science in Computer Science

Aug 2022 – May 2026

- **Courses:** Algorithms, Logic-Based Artificial Intelligence, Cognitive Modeling, Knowledge-Graph Powered AI, Operating Systems, Data Structures, Computer Organization, Principles of Software, Foundations of Computer Science, RCOS (Open Source Programming), Functional Programming Languages

PROJECTS

Flip

Full-Stack 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, using Python and MediaPipe tracking models for development

Spotify AI Hype Classifier

Primary Back-end Developer

Aug 2024 – Jan 2025

- SwiftHire is a personal web tool to help both employers and candidates find each other in one location
- SwiftHire utilizes our python AI-powered resume reviewer and MERN stack front-end
- Collaborated with team members on MERN front-end and resume-review algorithm

Synchronous Media Player

Primary Full-Stack Developer

Sep 2022 – Mar 2023

- SyncPlayer is a synchronous web application media player that unifies audio streaming
- Combines Spotify, Youtube, SoundCloud audio streams into one web application
- Waiting on what used

Laptime Simulation

Back-end Developer, Computer Vision, Rensselaer Motorsport

May 2023 – Aug 2023

- Developed computer vision scripts for digital track vision for Formula SAE endurance tracks
- Collaborated with Rensselaer Motorsport and RCOS members for development of algorithms
- Team utilized Python and OpenCV for computer vision back-end, Flask for front-end engineer use

LEADERSHIP AND ACTIVITIES

Rensselaer Center for Open Source (RCOS)

Troy, New York

Project Leader, Open Source Contributor

Jan 2022 – Present

- RCOS is a center for RPI students to contribute to open source technologies
- Some projects spawned by industry leaders such as IBM
- Led/contributed to multiple open source projects over the years

Rensselaer Motorsport

Troy, New York

Laptime Simulation Contributor

Aug 2022 – May 2023

- 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.
- Worked with team as one of two primary back-end developers for Laptime Simulation

SKILLS, LANGUAGES, INTERESTS

- **Languages:** Python, C, C++, C#, Java, JavaScript, Golang, Haskell, Erlang
- **Frameworks/AI:** PyTorch, TensorFlow, OpenCV, React, Node.js, Agile
- **Web Development:** Flask, HTML, CSS, PHP
- **Interests:** Chess, Anime, Formula One, Indie Music