

Cole Augusta

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EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY
Bachelor of Science in Computer Science

August 2022 – Present

IB Palm Harbor University HS — IB Diploma Palm Harbor, FL
Diploma from the International Baccalaureate Program

August 2018 – May 2022

RELEVANT COURSEWORK

Algorithms, Cognitive Modeling, Data Structures, Operating Systems, Principles of Software, Computer Organization, Foundations of Computer Science

SKILLS

Python, C, C++, HTML, CSS, Java, Go, Flask/React Front-end, MIPS, PyTorch LLM models

PROJECTS & EXPERIENCE

Flip, Troy, NY
Computer Vision, Front/Back-end

May 2024 – August 2024

- CV project to use hand movement tracking software as a replacement for scrolling through eBooks and pdfs
- Implemented MediaPipe recognition models for hand and gesture recognition with OpenCV, controlling mouse movement on startup
- Main back-end developer for Flip with Python and MediaPipe models, as well as contributing to Flip's hosted user website

YouTube ML Model (Pandas), Troy, NY
Back-end ML Developer

June 2024 – August 2024

- Developed a machine learning model to analyze YouTube statistics, specifically with Pandas linear regression modeling
- Established positive correlation/making predictions on view count based on “smaller” metrics: likes/dislikes, # of comments, comments/ratings disabled
- Python for back-end ML development with Linear Regression modeling

Rensselaer Motorsport, Troy, NY
Computer Vision, Front/Back-end

September 2022 – March 2023

- Developed CV programs for digital track vision for Formula SAE endurance tracks
- Collaborated with Rensselaer Motorsport and RCOS members for development
- Python/OpenCV for computer vision, Flask for front-end application

Honest Investor, Palm Harbor, FL
Front-end Website Developer

May 2023 – August 2023

- Honest Investor, a personal financing web tool to monitor and update stock exchanges in real time with Yahoo Finance
- Primary front/back-end programmer for the website, hosting it locally with an Apache server hosting HTML and PHP
- HTML, CSS, and PHP for website front/back-end development, as well as Apache and Linux proficiency to host

ACTIVITIES

Rensselaer Center for Open Source (RCOS), Troy, NY
Rensselaer Motorsport (RPI), Troy, NY
RPISEC – Computer Security (RPI), Troy, NY

January 2022 – Present
August 2022 – May 2022
January 2023 – May 2023