

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, Golang, Flask/React Front-end, MIPS, PyTorch LLM models

PROJECTS & EXPERIENCE

Rensselaer Motorsport, Troy, NY
Track Vision, Front-end

September 2022 – March 2023

- Developed 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

Flip, Troy, NY

May 2024 – Present

Computer Vision, Front/Back-end

- Project to use hand movement tracking software as a replacement for scrolling through eBooks and pdfs
- Mainly back-end developer for Flip with Python and MediaPipe models

YouTube ML Model (Pandas), Troy, NY

June 2024 – Present

Back-end ML Developer

- 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
- Python for back-end ML development

Honest Investor, Palm Harbor, FL

May 2023 – August 2023

Front-end Website Developer

- Honest Investor, a personal financing web tool to monitor and update stock exchanges in real time
- Primary front/back-end programmer for the website, hosting it locally
- HTML, CSS, and PHP for website front/back-end development

ACTIVITIES

Rensselaer Center for Open Source (RCOS), Troy, NY

January 2022 – Present

Rensselaer Motorsport (RPI), Troy, NY

August 2022 – May 2022

RPISEC – Computer Security (RPI), Troy, NY

January 2023 – May 2023