

Ryoma Harris

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science

Aug 2020 — May 2024

Candidate for Bachelor of Science in Engineering, Computer Science

Relevant Coursework: Data Structures and Algorithms, Automata Computability and Complexity, Linux and Unix Skills, Calculus III, Probability

Code Path

Mar 2021 — May 2021

Intro to Cybersecurity: a hands-on curriculum developed in partnership with Facebook

Ocean Lakes High School, Mathematics and Science Academy

Sep 2016 — Jun 2020

GPA 5.06 weighted | Ranked 1/484 | SAT 1530/1600 | ACT 36/36

TECHNICAL EXPERIENCE

IT Intern @ Shopy2Go

Jun 2021 — Current

- Extending and creating new backend API's and front-end UI for the take away and delivery process, as well as new web services integrated to the backend portal
- Refreshing the existing Android app with a new build on the latest Android version, including upgrades of the 3rd party libraries

Web Developer @ Penn Climate Ventures

May 2021 — Current

- Working closely with prototype designer to develop the PCV website, independently learning React

Tech Lead / Full-Stack Web Developer @ Cynfolia, cynfolia.com

Apr 2021 — Current

- Co-founding member, worked closely in a team of 5 to develop Cynfolia, a B2B food waste startup
- Independently learned Django to deploy a dynamic site for Cynfolia's services
- Developing the back-end, including features like user registration, and also the front-end, such as a desktop and mobile responsive navigation bar
- Awarded 2nd place out of 87+ teams by a panel of climate VCs at Penn Climate Ventures Competition

Research Intern @ ODU Virginia Modeling, Analysis, and Simulation Center

Aug 2019 — Aug 2019

- Researched, designed, and developed 3D-printed pieces for physically interacting with Old Dominion University's queuing simulation program, CLOUDES
- Helped design and code computer vision program to translate pictures of the pieces into the simulation

INDEPENDENT PASSION PROJECTS

Equipotential Grapher

Jun 2020 — Jun 2020

- Developed a web app used to gather equipotential data from charged particles in a 2D field
- Actively used by a physics teacher and 150+ students in AP Physics I, AP Physics II, and MG Physics
- Saves 90 minutes of instructional time and 3 to 4 hours of homework time per students, per year

Computer Vision for the Visually Impaired

Nov 2019 — Mar 2020

- Built a Raspberry Pi device with you-only-look-once computer vision, using OpenCV and Python
- Awarded Honorable Mention in the Computer Science category at the Tidewater Science Fair

HONORS AND AWARDS

2 nd Place Team	Great Computer Challenge: Scientific Programming Category	March 2020
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1 st Place Team	Lockheed Martin Code Quest: Advanced Division	April 2018
1 st Place Team	Great Computer Challenge: Object-Oriented Programming Category	March 2018

KEY SKILLS

Python, Django, Java, OCaml, Bash, Linux/Unix, git version control, HTML, CSS, JavaScript, SQL, cybersecurity