

Ryan Ho

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EDUCATION

Cornell University

College of Engineering — Bachelor of Science: Computer Science

Ithaca, NY

May 2025

Egg Harbor Township High School

High School Diploma

Atlantic County, NJ

June 2022

- GPA: 106.850/100.000

- Honors: 99th Percentile Class Rank, High Honors Varsity Scholar, National Honor Society (President), 500+ Service Hours

EXPERIENCE

Altum Labs

SDE Intern

New York City, NY

Mar. 2023 – Current

- Developed a .MZXML mass spectrometer file parser which decodes raw files containing compound peaks and ionization levels
- Worked on a wide variety of platforms including NLP sensory classification engine, cloud equipment controller, and WebDev
- Coordinated with a team of developers through weekly meetings and code reviews to ensure reliability and cloud support

OKB Hope Foundation: Hope Health Van

Backend Developer

Remote

Dec. 2022 – Jan. 2023

- Deployed a back end application leveraging the MERN stack on Amazon EC2 to assist medical professionals in Africa
- Developed a server to receive, process, and store patient information while using REST APIs to perform back end testing
- Implemented an SSL certificate to secure API endpoint calls through Certbot/Nginx while using Route53 to manage DNS

Rotary International: Egg Harbor Township Interact Club

Fullstack Web Developer

Atlantic County, NJ

Jun. 2020 - Jun. 2022

- Completed a Flask-based project, hosted on Linode, which used SQL databases to fetch and manipulate member information
- Served as a solution to Egg Harbor High School's community service shortage throughout the virtual COVID-19 year
- Allowed for an accumulation of 800+ collective service hours between 300 members throughout the 2021 - 2023 service years

Future Business Leaders of America: Densetsu

Project Manager & Web Developer

Atlantic City, NJ

Sept. 2021 – Feb. 2022

- Developed a full-stack web application with Django, utilizing SQLite databases to store and fetch encoded information
- Programmed responsive UI for all devices through HTML/CSS, and JavaScript/jQuery and Bootstrap libraries
- Employed Twilio API to create a call-fetch system that allowed users to receive realtime notification updates for reservations

PROJECTS

claim.ai | *OpenCV, pandas, scikitlearn*

May 2023

- Web application which determines the authenticity of hospital bill charges through computer vision and statistical inference
- Implemented cosine similarity algorithms to determine median price differences given procedure titles against public dataset

TrivAI | *Swift UI, React Native, AWS Lambda*

February 2023

- Worked apart of a team to create a mobile application that leverages LLMs to generate questions and study materials
- Engineered a front end with custom components with both Swift UI and React Native, prioritizing AWS functionality

Sakura | *Python, Flask, openAI*

Oct. 2022

- Created a Flask web application that leverages a machine learning API to generate, explain, and debug Python code.
- Deployed a GPT-3 series model which was later tuned to prioritize text-declaration, complex intent, and summarization

AWARDS AND CERTIFICATIONS

- Z-Fellows Finalist

May 2023

- 2022 Big Red Hacks Hackathon: Best Hack for User Accessibility sponsored by Fidelity Investments

Oct. 2022

- First place at New Jersey Future Business Leaders of America's Web Design Contest

May 2022

- Professional Certificate in Computer Science and Python-based Web programming from HarvardX

Jul. 2021

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, Swift, SQL

Technologies: React (Native), Node, Express, Flask, Django, SwiftUI, pandas, scikit-learn, MongoDB

Developer Tools: Git, Docker, CentOS, Ubuntu, Jupyter Notebook, Google Firebase, AWS, Linode, GCP