

ryanisho.com | github.com/ryanisho rh564@cornell.edu | 609.553.9005

# **FDUCATION**

#### **CORNELL UNIVERSITY**

BS IN COMPUTER SCIENCE May 2025 | Ithaca, NY GPA: 3.4 / 4.0

# EGG HARBOR TOWNSHIP HIGH SCHOOL

June 2022 | Egg Harbor Twp, NJ GPA: 106.500 / 100.000

# LINKS

Portfolio:// ryanisho GitHub:// ryanisho LinkedIn:// ryanisho

# **COURSEWORK**

OOP & Data Structures (Java)
Functional Programming (OCaml)
Analysis of Algorithms
Computer Systems/Organization
Machine Learning
Computer Vision
Data Science for Engineers
Probability and Inference
Discrete Structures
Linear Algebra

# **SKILLS**

### **PROGRAMMING**

Python • Java •
JavaScript/TypeScript • C++ • C •
Ruby • Go • PHP • HTML/CSS •
OCaml • R • SQL • Swift(UI) •
Kotlin • MATLAB

#### **TECHNOLOGIES**

React • Express • Next • Ruby on Rails • Flask • Django • scikit-learn • numpy • pandas • OpenCV • TensorFlow • PyTorch • Mongo • Dynamo • SQLite/SQLAlchemy • Ubuntu • Vercel • Git/GitHub • Docker • AWS/GCP

# **AWARDS**

Z-Fellows Finalist • Ingenious+ Youth Innovation Challenge Winner • 2022 BRH Hackathon: Best Hack for User Accessibility • 2022 NJ FBLA: 1<sup>st</sup> place Web Design

# **EXPERIENCE**

#### **CORNELL DATA SCIENCE** | DATA ENGINEERING SUBTEAM

October 2022 - Current | Ithaca, NY

- Implemented motion-detection and bounding-boxes for facial recognition system in C++ using OpenCV to achieve low-latency capture and model prediction on images
- Engineered front-end for Al-focused mobile study app using Swift UI and React Native
- Created Flask web-app using CV and cosine similarity to detect hospital bill anomalies and generated analysis report resulting in up to 30% savings in healthcare costs
- Developed movie-recommendation system with PyTorch using both kNN and deep neural network classifiers achieving over 80% accuracy on validation

#### **ALTUM LABS** | SOFTWARE DEVELOPMENT INTERN

March 2023 - Septemer 2023 | New York, NY

- Developed a Python .MZXML parser to extract compound ionization levels and peaks
- Designed database and access strategies using Supabase ensuring user-level security
- Created React application for users and optimized with SWR React hooks reducing data access latency by over 60% on common workloads
- Integrated backend using Express and Stripe API for secure user-payment handling

#### OKB HOPE FOUNDATION | Software Engineer Intern

December 2022 - January 2023 | Ithaca, NY

- Deployed app using MERN stack on Amazon EC2 to assist medical staff in Ghana
- Programmed server to store and process patient information using REST APIs
- Implemented an SSL certificate to secure API endpoint calls through Certbot/Nginx
- Collaborated directly with clients to prototype and design user-interface and developed functional and non-functional specifications

# FREELANCE | FULLSTACK DEVELOPER

December 2019 - July 2023 | Remote

- Implemented a patient management system for a psychology clinic using Ruby on Rails
- Created web-app for restaurant using Django and integrated with Twilio SMS API
- Built web app to prepare people for quant finance interviews with React and Express
- Designed frontend for professional tutoring service using TypeScript, HTML, and CSS

# **PROJECTS**

#### GOT | OCAML

December 2023

Developed a command-line version control tool in OCaml, incorporating file marshalling and serialization for project initialization, file staging, and commit management, along with features for branch handling and commit log viewing.

# SAKURA | FLASK, PYTHON, OPENAI

November 2022

Created a Flask-based web application leveraging LLVMs (OpenAI) to allow users to generate, analyze, and debug Python code with an aesthetically pleasing, user-friendly frontend.

#### X86 BOOTLOADER | x86, C++

July 2023

Designed and executed a display routine to output a greeting message and implemented disk operations to read multiple sectors all using a Global Descriptor Table for efficient memory segmentation and access control.