

# RYAN ONG

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tusmm.github.io

Linkedin

GitHub

## EDUCATION

### Rochester Institute of Technology

BS in *Computer Science*, Minor in *Communication* - GPA: **3.82**

Rochester, NY

August 2021 – May 2025

## WORK EXPERIENCE

### Cloud Engineer Co-op

Vanguard

September 2023 – Present

Malvern, PA

- Using **AWS Lambda** and other cloud services to develop full stack solutions
- Engineered a YAML duplicate key checker to prevent developer mistakes during a build, saving about **20+** hours of debugging plus platform support a week with behavioral driven testing
- Brainstormed a language agnostic solution to query JSON files for future platform tools
- Developed an end-to-end, internal Python library to cut down **thousands** LOC of duplicated logic

### Software Engineer Intern

M&T Bank

June 2023 – August 2023

Buffalo, NY

- Designed and developed a centralized hub with **Angular/Spring Boot** to hold internal bank applications
- Built authentication and authorization microservice with **Azure AD/LDAP** and connection to a **SQL database**
- Reduced tech debt by optimizing a web form and connected over **90** form entries to database endpoints
- Iterated through a full production cycle: design document, development, testing, user feedback, deployment

### Undergraduate Research Assistant

RIT, Biomedical Engineering Department

April 2023 – July 2023

Rochester, NY

- Sole developer on an interactive experience with a Zenbo to be an emotional support robot that will perform surveys on patients while collecting basic biomedical health data using **Android Studio** and its Java SDK
- Created **5** user interfaces consisting of multi-select options, radio buttons, and sliders

### CS Homework Grader

RIT, Computer Science Department

August 2022 – December 2022

Rochester, NY

- Prepared weekly Python **scripts** and grading scales to automate the grading of 47 students' homework assignments in the course Computational Thinking/Problem Solving (Python)
- Boosted my ability to give effective and detailed feedback and ability to explain technical concepts

### Computational Physicist Research Intern

Tufts University

May 2022 – July 2022

Middlesex, MA

- Worked within a team of 5 developers and 8 polymer researchers to simulate the wetting phenomena through a replicated contact angle experiment by developing a shape optimization program using **Morpho**
- Presented my theoretical results and program to a group of **30**, made up of the Tufts Polymer Research Team, chemical research professors, and graduate student researchers
- Modularized/debugged numerous features in an open source project in a team setting

## PROJECTS

### Qwerkey E-store | Java, Spring Boot, Angular, MongoDB, Git

January 2023 – August 2023

- Developing a ground-up web-facing e-commerce platform to sell keyboard parts at the criteria of a Product Owner using an Agile methodology and Angular/Spring Boot/REST API, won **best group** out of 40 people
- Configured all machines and led git development along with **MongoDB** integration/connection
- Designed DAO patterns to manage and store product and account data, enabling efficient data retrieval
- Iterated through a full production cycle: design document, communicating with client, sprints, releases

### HitsToFits | Flask, Google Cloud Storage/Vision AI, Spotify API, Git

February 2023

- Implemented an AI algorithm with a team of four to compare user's song data and clothing to recommend an outfit based on a song and utilized a goal-based learning model
- Stored and classified clothing images using Google Cloud Vision AI and Storage API

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, Shell, JavaScript, CSS, HTML, MATLAB, Markdown, MIPS

**Technologies/Frameworks:** Windows 10, Linux, Git, GitHub, GitLab, Angular, Spring Boot, NodeJS, SQL, Bootstrap, JavaFX, Azure AD, AWS