

RYAN ONG

San Diego, CA

☎ [+858-281-3816](tel:+858-281-3816) ✉ rto9185@rit.edu [in](#) [Linkedin](#) [G](#) [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

Software Engineer Intern

M&T Bank [↗](#)

June 2023 – August 2023

Buffalo, NY

- Designed and developed a dynamic, centralized hub in **Angular** and **Spring Boot** to service internal bank collection management that hosts inside business applications in an **Agile** environment
- Built authentication and authorization microservice with **Azure AD/LDAP** and connection to a **SQL database**
- Optimized and remade a web form with usability in mind to be more efficient and effective for users
- Iterated through a full, professional production cycle: design, development, testing, deployment, demo

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 checkups on patients while collecting basic biomedical health data using **Android Studio** and its Java SDK
- Presented and demoed the robot at Imagine RIT to hundreds of attendees

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 – Present

- 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

Love @ First Bite [↗](#) | React Native, Firebase, Git

October 2022

- Built a mobile app that promotes restaurants through a like/dislike matching system, won best **UI/UX**
- Used React Native and Google Firebase to create the app's functionality on both IOS and Android platforms

TECHNICAL SKILLS

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

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