

RYAN ONG

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EDUCATION

Rochester Institute of Technology

BS in **Computer Science** - GPA: **3.82**

Rochester, NY

August 2021 - December 2024

WORK EXPERIENCE

Cloud Consultant Intern

May 2024 – August 2024

Amazon Web Services 🔗

Herndon, VA

- Implemented infrastructure and connections to multiple AWS Services to build out a search engine
- Designed an architecture diagram and led team workflow/development processes and schedule
- Developed re-usability, CI/CD, and portability of a product after meeting core deliverables
- Aligned separate teammate's pieces of work and mentored software development design and best practices

Cloud Engineer Co-op

September 2023 – December 2023

Vanguard 🔗

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

June 2023 – August 2023

M&T Bank 🔗

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

April 2023 – July 2023

RIT, Biomedical Engineering Department 🔗

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

August 2022 – December 2022

RIT, Computer Science Department 🔗

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

May 2022 – July 2022

Tufts University 🔗

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

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

TECHNICAL SKILLS

Languages: Python, Java, C, C++, Shell, JavaScript, TypeScript, SQL

Technologies/Frameworks: Linux, Git, GitHub, GitLab, Angular, React, Spring Boot, CSS, HTML, Bootstrap, JavaFX, AWS

Certifications: AWS CCP, AWS SAA, AWS DVA, AWS AIP, AWS MLA, AWS DEA