RYAN ONG

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EDUCATION

Rochester Institute of Technology   Rochester, NY
BS in **Computer Science** *- GPA:* **3.82**   *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*