

# Ryan Ma

ryanma22303@gmail.com | linkedin.com/in/ryanma03 | 929-310-7961

## EDUCATION

### Georgia Institute of Technology

Bachelor of Science in Computer Science | GPA: 3.88 / Major GPA: 4.00

Atlanta, GA

Expected December 2024

**Threads:** Artificial Intelligence, Systems and Architecture

**Honors:** Faculty Honors, Dean's List

## EXPERIENCE

### Incoming Software Engineer Intern

Flatiron Health

Jun 2024 - Aug 2024

New York, NY

### Undergraduate Teaching Assistant

Georgia Institute of Technology College of Computing

Jan 2024 - Present

Atlanta, GA

- Create and grade homework and tests for CS3510 Design and Analysis of Algorithms with lecturer Abraham Ladha
- Hold office hours and actively respond to Piazza posts to clarify course material for students

### Software Engineer

Georgia Tech Student Government Association IT Board

Mar 2023 - Present

Atlanta, GA

- Develop applications used to automate and support internal SGA processes and student funding requests
- Implement login error handling to ensure only GT users can view and submit student organization billing info

### Software Engineer Intern

MarketAxess

Jun 2023 - Aug 2023

New York, NY

- Built a trade ticket to provide trade detail analysis and to enable cancelling and amending of trades for clients to increase usage of new UI trading platform
- Utilized microservice architecture such as Websockets, Kafka, and Redis to create real-time cancelling and amending functionality that reduces throttling and latency during high traffic
- Analyzed the feasibility of incorporating a new product into the MarketAxess global rates trading ecosystem from a technological and business perspective for product sponsors

### Software Engineer Intern

Unfound

Jan 2023 - Jun 2023

Remote

- Collaborated with interns to implement new and improve upon existing features for an Android application that allows users to share and discover unique places
- Added proper post reporting and user blocking feedback to comply with Google Developer Policies
- Debugged various performance issues during the rendering of screens according to pain points to ensure a enjoyable app experience

### Technology Development Program Intern

Optum

Jun 2022 - Aug 2022

Minneapolis, MN

- Created a proof of concept web application in a 4-person team for matching acquired entity capabilities to road maps for integration into the United Healthcare ecosystem
- Analyzed sample acquisitions and road maps to formulate a matching algorithm used to save 100s of hours of meetings between solution architects and integration team members

## PROJECTS

### Health Informations on FHIR | React, HTML, CSS, PostgreSQL

- Engineer a web application converting user input into Fast Health Interoperability Resources structured documents, resulting in more efficient patient data turnaround rates between clinics
- Add patient data to Social Determinants of Health mapping functionality to guide the Centers for Disease Control and Prevention in choosing target areas of research and assistance
- Organize meetings and assign tasks using scrum methodologies as a developer team lead for Georgia Tech's selective Vertically Integrated Projects program to ensure a smooth development process

## SKILLS

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

**Frameworks & Databases:** React.js, Node.js, Express, MongoDB, PostgreSQL, Svelte

**Developer Tools:** Git, Jira, Docker, Windows

**Concepts:** Object Oriented Programming, Data Structures and Algorithms, Scrum Development Process, Unit Testing