

# Ryan Ma

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## EDUCATION

### Georgia Institute of Technology

*Masters of Science in Computer Science*

Atlanta, GA

*Expected December 2025*

*Bachelor of Science in Computer Science | GPA: 3.94 / Major GPA: 4.00*

*Expected December 2024*

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

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

## EXPERIENCE

### Software Engineer Intern

*Flatiron Health*

Jun 2024 - Present

*New York, NY*

- Create a write back modal to allow physicians to save cancer biomarker information back to patient charts from molecular profile testing orders on OncoEMR, reducing manual data entry and streamlining the order workflow

### Undergraduate Teaching Assistant

*Georgia Institute of Technology College of Computing*

Jan 2024 - Present

*Atlanta, GA*

- Design and grade homework and exams for CS 3510 - Design and Analysis of Algorithms with 260 students
- Lead office hours and actively respond to Piazza posts to clarify course material

### 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
- Build a course roadmap planning application to help students determine how to plan out classes and their pre-requisites across multiple semesters to simplify class registration and reduce schedule conflicts

### 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, increasing usage of the new UI fixed income trading platform and increasing client satisfaction
- Utilized a microservice architecture to create real-time cancelling and amending functionality, allowing for seamless trading by reducing throttling and latency during key market movements
- Analyzed the feasibility of incorporating a new product into the MarketAxess global rates trading ecosystem from a technological and business perspective for product sponsors

### 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, Python, PostgreSQL*

- Engineered a web application that converts user CSV input into Fast Health Interoperability Resources structured documents, resulting in more efficient patient data turnaround rates between clinics
- Mapped patient data to Social Determinants of Health to guide the Centers for Disease Control and Prevention in choosing target areas of research and assistance

## 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