

Ryan Ma

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science | GPA: 3.92 / Major GPA: 4.00

Masters of Science in Computer Science

Threads: Artificial Intelligence, Systems and Architecture

Atlanta, GA

Expected December 2024

Expected December 2025

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 exams for CS3510 Design and Analysis of Algorithms
- 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
- Build a multi-semester course planning application to help students determine how to plan out classes and their pre-requisites, streamlining the class registration process

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

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

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