Ryan Ma

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

EDUCATION

Georgia Institute of Technology   Atlanta, GA
Bachelor of Science in Computer Science | GPA: 3.94 / Major GPA: 4.00   *Expected December 2024*
Masters of Science in Computer Science   *Expected December 2025*
Threads: Artificial Intelligence, Systems and Architecture   **Honors:** Faculty Honors, Dean's List

EXPERIENCE

Software Engineer Intern   Jun 2024 - Present
Flatiron Health   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   Jan 2024 - Present
Georgia Institute of Technology College of Computing   Atlanta, GA
- Design and grade homework and exams for CS3510 Design and Analysis of Algorithms
- Lead office hours and actively respond to Piazza posts to clarify course material for students

Software Engineer   Mar 2023 - Present
Georgia Tech Student Government Association IT Board   Atlanta, GA
- Develop applications used to automate and support internal SGA processes and student funding requests
- Build a multi-semester course roadmap planning application to help students determine how to plan out classes and their pre-requisites, streamlining the class registration process

Software Engineer Intern   Jun 2023 - Aug 2023
MarketAxess   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 a microservice architecture 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

Technology Development Program Intern   Jun 2022 - Aug 2022
Optum   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 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