Ryan Ma

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
Bachelor of Science in Computer Science | GPA: 3.88 / Major GPA: 4.00 — *Expected December 2024*
Threads: Artificial Intelligence, Systems and Architecture — **Honors:** Faculty Honors, Dean's List

EXPERIENCE

Incoming Software Engineer Intern — Summer 2024
Flatiron Health — *New York, NY*

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
- Implement login error handling to ensure only GT users can view and submit student organization billing info

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 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 — Jan 2023 - Jun 2023
Unfound — *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 — 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

Museview | *SvelteKit, HTML, CSS. MongoDB*
- Design and create a full stack application with Svelte and Sveltekit by creating a Letterboxd-inspired music reviewing site using the Spotify API in order to learn Svelte

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