

# Ethan Ruan

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## EDUCATION

Georgia Institute of Technology, College of Computing

Atlanta, Georgia

*Bachelor of Science in Computer Science*

August 2023 - Expected Graduation December 2026

- **Concentration:** Intelligence & Information Internetworks
- **Relevant Coursework:** Linear Algebra, Intro to Object-Oriented Programming (Java), Discrete Mathematics, Data Structures and Algorithms, Object and Design
- **Scholarships:** Zell Miller

## EXPERIENCE

Georgia Tech VIP Program - ML for Financial Markets

Atlanta, GA

*Researcher*

January- 2024-Present

- Led a multidisciplinary team to conduct a comprehensive replication study on natural language processing models applied to Wikipedia financial research papers
- Implemented and fine-tuned BERT model using Python SentiFM framework for weakly supervised learning, enabling the automatic labeling of key sentences within financial research papers as positive or negative.

Georgia Tech Undergraduate Consulting Club

Atlanta, GA

*Pro Bono Project Consultant - UniBuzzy*

January 2024 - May 2024

- Advised UniBuzzy leadership of app improvements through comprehensive market research, competitor analysis, and business/system analysis for the app's optimization.
- Crafted a sustainable revenue generation strategy for Unibuzzy, ensuring the continuity of operations and fostering long-term financial viability through innovative business models and market analysis.

Repertoire Partners

Alpharetta, GA

*Market Analysis Intern*

May 2021- July 2021

- Prospected potential competitors through market research and utilized Excel to create a condensed balance sheet comparing quarterly expenses and key performance indicators for more informed stock purchases.
- Evaluated investment opportunities by analyzing companies' business models, unit economics, and competitive dynamics resulting in multiple 6 figure profits.

## Projects

**Spotistats** | Java, Kotlin, Git, Firebase, Domain Model

- Streamlined the development of Spotify Wrapped app where users can login, connect to the Spotify API, view current and past "wraps", and listen to their top tracks.
- Created design class diagrams and sequence models as visualizations to seamlessly integrate our app's attributes with user experience.

**Portfolio Website** | HTML, CSS, JavaScript, SQL, Node JS

- Created a front-end website showcasing my projects, experiences, personal achievements
- Implemented a database solution with SQL and Node.js to store and manage visitors' names, emails, and messages

**Buzz Schedule** | Java, Kotlin, Git, Firebase

- Collaborated with a cross-functional team to design and implement features allowing users to add and manage classes, assignments, and exams efficiently, enhancing productivity and time management
- Initiated the conceptualization and development of Buzz Schedule, an innovative Java application that provides users with control over their academic schedules, class timings, professor details, and class locations.

## SKILLS/INTERESTS

**Languages:** English – native proficiency, Chinese – working proficiency, Spanish - intermediate, Korean - beginner

**Skills:** Java, Python, HTML, CSS, JavaScript, Git, Firebase, Kotlin, Android Studio, Node JS

**Affiliations:** Phi Sigma Kappa, Table Tennis Club, Undergraduate Consulting Club, Data Science Club, Trading Club

**Awards:** US Junior National Team Member, 2019 Table Tennis Cadet All-American

**Interests:** Travel, Scuba Diving, Golf, Formula 1

**Volunteer:** Food4Life, Formosa Association of Student Cultural Ambassadors Student

