

# Ryan Ramboer

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## EDUCATION

### University of Michigan

Aug 2020 – Dec 2023

*Bachelor of Science in Engineering, Computer Science (3.9 GPA)*

*Ann Arbor, MI*

- **Awards:** Summa Cum Laude, James B. Angell Scholar, Dean's List, University Honors, Regents Scholar
- **Coursework:** Data Structures and Algorithms, Computer Science Theory, Discrete Math, Software Engineering, Computer Organization, Intro to Artificial Intelligence, Computer Security, UX/UI Design, Multivariable Calculus
- **Activities:** Theta Capital (VP), DIII Ice Hockey (2023 National Champion), Michigan Journal of Econ. (Editor)

## EXPERIENCE

### Software Engineer

Mar 2024 – Present

*FactSet*

*Remote, USA*

- Spearheaded development of next-generation web platform (Vue, TypeScript) seamlessly integrating FactSet AI assistant into completely reimaged and redesigned UX workflow to optimize performance, efficiency, and usability
- Engineered new financial research workflow features for redesigned iOS and Android app, enabling 20,000+ users to access millions of pieces of proprietary data on the go; Completed as part of CEO-led, handpicked mobile task force
- Maintained and upgraded web platform infrastructure vital to platform functionality for over 140,000 daily users

### Software Engineer Intern

May 2023 – Aug 2023

*FactSet*

*Norwalk, CT*

- Architected and developed 3 API endpoints in C++ for each of the 4 in-house portfolio optimization applications
- Constructed Jupyter Notebooks to showcase API functionality and automation use-cases to buy-side quant clients

### Webmaster

Jan 2022 – Sep 2022

*UMich Engineering Career Fair*

*Ann Arbor, MI*

- Reconstructed and maintained the official website for the UMich Engineering Career Fair, which was viewed more than 26,000 times and brought in \$263,100 in revenue from 260+ companies
- Organized 5,000+ students and 400+ corporate recruiters during the two-day event, ensuring maximal efficiency

### Software Verification Engineer Intern

May 2022 – Aug 2022

*Gentherm*

*Northville, MI*

- Developed rigorous test suite to validate internal test automation tools, increasing testing efficiency by 80%
- Created and executed 200+ software and systems test cases on ECUs for customer products using simulation tools

## PROJECTS

### Forex Visualizer & Sentiment Heatmap Analyzer | *Python, Flask, React, Tailwind, Git*

- Created a fintech web app featuring real-time global FX visualizer and earnings call transcript analyzer using NLP to generate market-wide heatmap of company sentiment, colored by sentiment of each company's last earnings call
- Won Best FinTech Hack for Best Use of Digital Currency out of 486 participants at SpartaHack 9 hackathon

### Stock Portfolio Optimization Web Dashboard | *Python, Flask, React, SQL, Google Cloud*

- Developed a portfolio optimization web app with a dashboard that allows users to create optimal, data-driven portfolios given initial stock holdings and uninvested cash, featuring backtesting capabilities
- Runner-up for Best Financial Hack out of 357 participants at MHacks 16 hackathon

### Campus Dining Hall Time-Optimized GPS | *HTML, CSS, JavaScript, Firebase*

- Directed users to UMich campus dining hall with shortest meal acquisition time using crowdsourced line-length data and Google Maps API to calculate total wait time based on the user's initial location
- Won Best Beginner Hack and Best Use of Google Cloud out of 164 participants at MHacks 14 hackathon

### Price Action Simulator | *Python*

- Developed a parametrizable Monte Carlo simulation to model rally and crash price action, incorporating complex systems dynamics and investor psychology including panic and FOMO

## TECHNICAL SKILLS

**Languages:** C++, C, Python, HTML, CSS, JavaScript, TypeScript, Bash, SQL

**Frameworks:** Vue, React, Flask, SQLite, Bootstrap, Tailwind, Vite

**Developer Tools:** Agile, AWS, CI/CD, Docker, Git, Jira, Linux, MS Excel, Perforce, Postman, Raspberry Pi, VSCode

**Interests:** Hockey, Tennis, Piano, Hiking, PC Building, Financial Market Analysis (Bloomberg Market Concepts Cert.)