Ryan Ramboer ***Software Engineer***

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# Education

**University of Michigan  |  College of Engineering Ann Arbor, MI | Aug 2020 – Dec 2023**

* Bachelor of Science in Engineering, Computer Science (GPA: 3.89/4.00)
* Awards: Summa Cum Laude, James B. Angell Scholar, Dean’s List, University Honors, Regents Scholar
* Coursework: *Data Structures and Algorithms, Theory of Computer Science, Discrete Math, Software Engineering, Computer Organization, Intro to Artificial Intelligence, Computer Security, User Interface Design, Multivariable Calculus*
* Activities: Theta Capital (VP), DIII Ice Hockey (2023 National Champion), Michigan Journal of Economics (Editor)

# Experience

**Software Engineer | FactSet Remote, USA |  Mar 2024 – Present**

* Spearheaded development of next-generation web platform seamlessly integrating FactSet Mercury AI assistant into completely reimagined and redesigned UX workflow to optimize performance, efficiency, and usability
* Developed new financial research workflow features for redesigned iOS and Android app, enabling 20,000+ daily users to search for public companies and access charts, financial info, corporate structure, breaking news, and millions of other pieces of proprietary data on the go; Completed as part of CEO-led mobile task force
* Maintained and upgraded web platform infrastructure vital to platform functionality for over 120,000 daily users

**Software Engineering Intern  | FactSet Norwalk, CT |  May 2023 – Aug 2023**

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

**Software Verification Engineering Intern  | Gentherm Northville, MI |  May 2022 – Aug 2022**

* 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

**Webmaster  |  UMich Fall Engineering Career Fair Ann Arbor, MI |  Jan 2022 – Sep 2022**

* Reconstructed and maintained the official website for the UMich Fall 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 on the days of the event, ensuring maximal efficiency

# Skills

**Software:** C++, C, Python, JavaScript, TypeScript, Vue, React, Node, Vite, HTML, CSS, SCSS, Bootstrap, Tailwind, Bash/Shell, REST API, Microsoft Excel, GitHub, Git, Perforce, Vector CAPL & CANoe & CANalyzer, Raspberry Pi, VS Code

**Abilities:** Object-Oriented Programming**,** Web Design, Team Leadership, Radical Candor, Proactive Efficiency, Advanced Financial Market Analysis (Stocks, Options, Bonds, Futures; Bloomberg Market Concepts Certification)

# Projects

[**SpartaHack 9 Hackathon (Python, Flask, React, Tailwind):** “MichMoney”;](https://github.com/rramboer/MichMoney) Created a fintech web app with real-time global Forex visualization, and earnings call transcript analysis heatmap using NLP; Won Best FinTech Hack for Best Use of Digital Currency out of 486 participants

[**MHacks-16 Hackathon (Python, Flask, Tailwind, React, Google Cloud):** “WolvWealth”;](https://github.com/rramboer/WolvWealth) 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; Runner-up for Best Financial Hack out of 357 participants

[**Multi-Purpose Discord Bot (JavaScript, MongoDB):**](https://github.com/rramboer/A-Bot)Utilized Discord API to implement server management capabilities and other entertainment features like a casino, economy, and games; Self-hosted on Raspberry Pi

[**MHacks-14 Hackathon (HTML, CSS, JavaScript, Firebase):** “Fastr Food”;](https://github.com/rramboer/MHACKS-14-fastrfood) Directed users to the dining hall with the quickest meal acquisition time using crowdsourced line-length data and Google Maps API;Won Best Beginner Hack and Best Use of Google Cloud out of 164 participants

[**Price Action Simulator (Python):**](https://github.com/rramboer/stock-simulator)Modeled rally and crash price action with parametrizable initial conditions using a complex systems Monte Carlo simulation incorporating investor psychology such as panic and the fear-of-missing-out