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 (Vue, TypeScript) seamlessly integrating FactSet 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"; 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"; 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): 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"; 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): 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