Ryan Ramboer

Computer Science Student

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Education

UNIVERSITY OF MICHIGAN | COLLEGE OF ENGINEERING   **ANN ARBOR, MI**

· Bachelor of Science in Engineering in Computer Science (GPA: 3.84/4.00)   *Aug 2020 - Dec 2023*
· Coursework: *Data Structures and Algorithms, Foundations of Computer Science, Discrete Math, Software Engineering, Computer Organization, Intro to Artificial Intelligence, Computer Security, User Interface Design, Multivariable Calculus, Materials and Manufacturing, Electricity and Magnetism*
· Vice President of Theta Capital Investment Club   *Sep 2021 – Dec 2022*
· Player for Michigan Wolverines DIII Ice Hockey (2023 National Champions)   *Aug 2020 – Mar 2023*
· Editor for Michigan Journal of Economics   *Sep 2021 – Jan 2022*

LAKELAND HIGH SCHOOL   **WHITE LAKE, MI**

· Valedictorian – GPA: 4.38/4.00   *Sep 2016 – May 2020*

Skills

Software: C++, C, Python, JavaScript, Vue.js, jQuery, HTML, CSS, Bootstrap, Go, Microsoft Excel, Vector CAPL, Vector CANoe & CANalyzer, Thinkorswim, IBM Rational Jazz, Jira, Confluence, Raspberry Pi, Git

Abilities: Project Coordination**,** Web Design, Team Leadership, Advanced Financial Market Analysis (Stocks, Options, Crypto, Futures; Bloomberg Market Concepts Certified)

Languages: Native English, Limited Working Spanish

Projects

Multi-Purpose Discord Bot (JavaScript): Utilized Discord API to implement server management capabilities and other features like a casino, economy, and memes; Hosted on MongoDB

Recipe Book Website (HTML, Bootstrap, Vue.js, JSON): Extensible recipe book designed for accessibility

Sudoku Solver (C): Implemented demo and user-input modes, tested on one million valid games

SQL Clone (C++): Emulated a basic relational database with an interface based on a subset of SQL

MHacks-14 Hackathon (HTML, CSS, JavaScript): "Fastr Food"; Directed users to the dining hall with the quickest meal acquisition time using crowdsourced line length data and travel time from Google Maps API; Won Best Beginner Hack and Best Use of Google Cloud

Stock Simulator (Python): Modeled rally or crash price action with parametrizable initial conditions using a complex systems Monte Carlo simulation applied to investor panic and the fear-of-missing-out

Experience

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

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

· Developed a test suite 3400 lines long to debug and verify internal test automation software tools written in Vector CAPL and run in Vector CANoe
· Created and executed software (SWE.6) and systems (SYS.5) test cases on ECUs for OEM customer products using simulation tools like Vector CANalyzer
· Generated and submitted test reports with list of defects directly to the global team and to customers
· Applied knowledge of customer specifications and requirements to develop tests on microcontrollers

Webmaster | FALL ENGINEERING CAREER FAIR   **Ann Arbor, MI | Jan 2022 – Sep 2022**

· Reconstructed and maintained the website for the UMich Engineering Career, which was viewed more than 26,000 times and brought in $250,000+ in revenue from 260+ companies
· Oversaw the Website Committee Chairs, providing valuable insight to the Directors to inform decisions