# Ryan Rumao

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## EDUCATION

**University of Wisconsin - Madison**                                              September 2021 - May 2025
Bachelor of Science: Computer Science, Data Science; Minor: Game Design, Entrepreneurship          **GPA: 3.92/4.0**
- 6x Dean's List (2021-2024)
- Relevant Coursework: Data Structures, Algorithms, Artificial Intelligence, Big Data Systems, UI/UX Design, Database Management Systems, Machine Organization & Programming, Discrete Mathematics, Linear Algebra.

## EXPERIENCE

**Amazon** | Madison, WI                                                                      January 2025 – Present
Capstone Full-Stack Developer
- Engineering a Tinder-like outfit matching application for Amazon (Shopbop), enabling users to effortlessly discover complete outfits from the Shopbop catalog.
- Developing a personalized recommendation engine using Python and AWS (DynamoDB, EC2), streamlining outfit discovery and reducing the need for extensive browsing.
- Building core functionality including user authentication, swipe-based item selection, and dynamic outfit assembly using React.js, Flask, AWS (Cognito, Lambda and DynamoDB), enhancing the shopping experience with an engaging UI.
- Leading a team of 5, hosting weekly sprints and daily stand-ups, ensuring a dedicated taskforce using the Agile Framework.

**Computer Sciences - University of Wisconsin-Madison** | Madison, WI                    September 2024 – Present
Undergraduate Teaching Assistant
- Held office hours and taught complex topics in UI/UX and Web Development, bolstering their confidence and knowledge.
- Assisted students with problems in advanced projects using tools such as React.JS, Node.JS, React Native and Wit.AI.
- Developed strong communication and problem-solving skills by effectively guiding students through technical challenges.

**Traffic Operations and Safety Laboratory** | Madison, WI                                October 2023 – Present
IT Desktop Support
- Oversee the operations and handle requests for a statewide application portal, serving 100+ users per month.
- Optimized and developed the TOPS Labs websites as well as clients' websites using WordPress and JavaScript.
- Built a laptop check-in and check-out system using PHP to automate the process, making it concise and efficient.
- Manage and solve issues regarding any software and hardware for the entire department of around ~30 employees.

**Informatics Skunkworks Lab** | Madison, WI                                         September 2024 – Jan 2025
Undergraduate Research Scholar | Dr. Shamya Karumbaiah
- Finetuning and testing LLM Models to achieve high ROUGE scores (0.6+) for summarization in English, Spanish and Spanglish using Python.
- Leading discussions with a sub-group focusing on summarization to refine strategies, evaluate model outputs, and enhance performance.

**Avraamidou Research Group** | Madison, WI                                          August 2024 – Jan 2025
Undergraduate Research Scholar | Dr. Styliani Avraamidou
- Helped develop supply chain models using mixed-integer multi-scale optimization to identify energy infrastructure for a zero-carbon future in Python and Julia.
- Assisted on research focusing on net-zero carbon transportation for heavy-duty vehicles in the Midwest using hydrogen as an alternative source of fuel.

## SKILLS

**Programming Languages:** Java, Python, R, C, C++, JavaScript, SQL
**Frameworks / Libraries:** React.JS, React Native, Node.JS, JUnit, Flask, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
**Tools:** Linux, Git, Docker, Bash, Google Cloud Platform, CSS, HTML, Unity, EC2, DynamoDB, Agile Methodology, Scrum, Jira

## PROJECTS

**MindGrove – AI Journalling Tool | 2nd Place at MadData 2024 -** Led a team of 4 to create a Journaling tool to help track personal growth using emotions as a metric using React.JS and Node, providing a clean and responsive user interface for the website. Integrated advanced data and insights into an intuitive webpage using Python and Flask, showcasing complex graphs for accessible visualization.