

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

Full-Stack Developer

- Engineering a Tinder-like outfit matching application for Amazon (Shopbop), enabling users to effortlessly discover and create complete outfits from the Shopbop catalog.
- Developing a personalized recommendation engine with K-Nearest Neighbors to streamline outfit discovery and reduce need for extensive browsing using Python and AWS (EC2 and DynamoDB).
- Building core functionality including user authentication, swipe-based item selection, and dynamic outfit assembly to enhance the shopping experience using React.js, Python (Flask), AWS (Cognito, Lambda and DynamoDB).
- Leading a team of 5, hosting weekly sprints and daily stand-ups using Agile Framework and Scrum.

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. Shamyia 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 Journaling 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.