

Aaryan Patel

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EDUCATION

University of Wisconsin-Madison

Madison, WI

B.S. Computer Science and B.S. Data Science, Minor in Game Design

Expected May 2027

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Intro Machine Learning

PROFESSIONAL EXPERIENCE

University of Wisconsin-Madison Center for High Throughput Computing

Madison, WI

Research Computing Facilitator Assistant

July 2024 - Present

- Streamlined data management for research computing by writing scripts that automate data collection and report generation using **Python**, **Pandas**, and **Bash**
- Generated insightful reports and tables from key metrics using **Matplotlib**, **R**, and **RMarkdown**, facilitating analysis of high-throughput computing usage
- Refactored existing data collection and report generation processes, optimizing workflow efficiency and reducing manual effort for researchers by creating software recipes in **Docker**

University of Wisconsin-Madison Division of Information Technology

Madison, WI

DoIT Data Analytics and Metrics Student Help

July 2024 - Present

- Refreshed interactive dashboards using **Tableau** to deliver actionable insights into DoIT services
- Leveraged and extracted data from multiple sources to create comprehensive, data-driven reports that informed strategic decision-making

NASA

Remote

Computer Hardware Engineer

May 2024 - August 2024

- Spearheaded the design, selection, and integration of the Command and Data Handling (**CDH**) subsystem of a conceptual lunar rover mission in a student-led team of **10+** students
- Delivered technical guidance, trade studies, and support to the subteams as the primary computer hardware engineer, ensuring hardware compatibility and adherence to project constraints.

PROJECTS

Datamatch | React, JavaScript, HTML, CSS, Firebase, Figma

- Attracted over **32,500+** annual users by significantly boosting user engagement through a comprehensive website redesign and requested feature implementation using **React**, **HTML**, and **CSS**.
- Collaborated in cross-functional communication between divergent college web teams to seamlessly integrate front-end components using **Figma**

LEADERSHIP

Leetcode Club

Madison, WI

Outreach and Content Executive

October 2024 - Present

- Organized successful club meetings and guest speaker sessions to foster a vibrant tech community
- Presented engaging and informative content regarding data structures and algorithms

Datamatch

Madison, WI

Chief Code Executive | React, Firebase, HTML, CSS

December 2023 - Present

- Cultivated a high-performing code team through effective code reviews, mentorship, and troubleshooting
- Orchestrated a coding boot camp, educating **10+** students on **React**, **Firebase**, **HTML**, and **CSS** fundamentals

SKILLS

- Languages:** Java, Python, R, JavaScript, HTML, CSS, Bash, SQL, RMarkdown, English, Gujarati
- Tools:** React, Git, Node.js, Flask, Express.js, MongoDB, Firebase, Docker, Pandas, JUnit, MUI, Jira, Matplotlib