

Aaryan Patel

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EDUCATION

University of Wisconsin-Madison

Madison, WI

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

Expected May 2027

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

PROFESSIONAL EXPERIENCE

State Farm

Bloomington, IL

Software Engineer Intern

May 2025 - August 2025

- Architecting an internal tool with a user-friendly **React** interface and managing infrastructure with **Terraform**
- Automating workflow using a **CI/CD** pipeline and adhering to an **Agile** workflow
- Engineering scalable **Python**-based APIs, deploying and managing them within the **AWS** ecosystem

University of Wisconsin-Madison Center for High Throughput Computing

Madison, WI

Research Computing Facilitator Assistant

July 2024 - Present

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

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, 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**

NBALiveSlack | Python

- Established a real-time **Python** script with dynamic data-processing logic to send personalized, rich, and contextual **Slack** notifications for detected game events

LEADERSHIP

Datamatch

Madison, WI

Chief Code Executive | React, Firebase, HTML, CSS

December 2023 - Present

- Cultivating a high-performing code team through effective code reviews, mentorship, and troubleshooting
- Orchestrating 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, AWS, Flask, Express.js, MongoDB, Terraform, Docker, Pandas, JUnit, Jira, Matplotlib