Aaryan Patel

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EDUCATION

University of Wisconsin - Madison   Madison, WI
B.S. Computer Science / B.S. Data Science, Certificate (Minor): Game Design   **May 2027**
Related Courses: Calculus and Analytic Geometry I, Programming I (Java), Calculus and Analytic Geometry II,
Programming II (Java OOP), Elementary Matrix and Linear Algebra, Programming III (Java DSA)

EXPERIENCES

Headstarter AI   Remote
Software Engineering Fellow   July 2024 - September 2024
- Built 5+ AI apps and APIs using NextJS, Gemini, MUI, and Firebase with 98% accuracy
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

Center of High Throughput Computing (CHTC)   Madison, WI
Research Computing Facilitator Assistant   July 2024 - Present
- Streamlined data management for research computing by automating data collection and report generation
- Generated insightful reports and tables from key metrics, facilitating analysis of high through computing usage
- Refactored existing data collection and report generation processes, optimizing workflow efficiency and reducing manual effort for researchers using Python and Unix commands

NASA L'SPACE Mission Concept Academy   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.
- Delivered technical guidance and support to the subteams as the primary computer hardware engineer, ensuring hardware compatibility and adherence to project constraints
- Conducted trade studies pertaining to telecommunications, software architecture subassemblies, lower-level requirements, and a software architecture flowchart for the CDH subsystem.

Datamatch   Madison, WI
Chief Code Executive & Web Developer   December 2023 - Present
- Significantly boosted user engagement through a comprehensive website redesign and feature implementation, which attracted over 32,500 annual visitors.
- Collaborated in cross-functional communication between divergent college web teams to seamlessly integrate frontend components using Figma
- United React, Javascript, HTML, and CSS to develop interactive user interfaces (UI) and improve user experience (UX)

SKILLS

Technical Languages: Java, Python, JavaScript, HTML, CSS, Bash
Libraries/Tools: React, Node.js, Express.js, MongoDB, SQL (MySQL), Firebase, Docker, Axios, Tableau (Developer Skill Badge), Matplotlib, Tailwind CSS, MUI, Beautiful Soup, Git, GitHub, Figma, Jira, Chrome Extension Development API, Slack, Visual Studio Code, Pycharm, IntelliJ, Eclipse, Microsoft Excel/Word (Certified), Google Analytics
Languages: English (native), Gujarati (native)