Aaryan Patel

(650)-273-6642 | aaryanp802@gmail.com | LinkedIn | GitHub | Portfolio

EDUCATION

University of Wisconsin - Madison   Madison, Wisconsin
Bachelor of Science in Computer Science and Data Science, Minor in Game Design   *Expected May 2027*
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Calculus and Analytic Geometry, Elementary Matrix and Linear Algebra

CodePath   Remote
Intro to Cybersecurity   *September 2024 - November 2024*

EXPERIENCE

Research Computing Facilitator Assistant   July 2024 – Present
Center of High Throughput Computing (CHTC)   *Madison, WI*
- Streamlined data management for research computing by automating data collection and report generation using **Python** and **Bash**
- Generated insightful reports and tables from key metrics using **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**

DoIT Data Analytics & Metrics Student Help   July 2024 – Present
University of Wisconsin - Madison Division of Information Technology   *Madison, WI*
- Developed and optimized 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
- Enhanced data quality through meticulous data cleaning practices, maximizing data analysis outcomes

Software Engineering Fellow   July 2024 – September 2024
Headstarter AI   *Remote*
- Built 5+ AI apps and APIs using **NextJS**, **Gemini**, **Material UI**, and **Firebase** with 98% accuracy
- Pioneered 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

Computer Hardware Engineer   May 2024 – August 2024
NASA   *Remote*
- 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 12
- 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

Chief Code Executive and Web Developer   December 2023 – Present
Datamatch   *Madison, WI*
- Significantly boosted user engagement through a comprehensive website redesign and feature implementation using **React**, **HTML**, and **CSS**, which attracted over 32,500 annual visitors
- Collaborated in cross-functional communication between divergent college web teams to seamlessly integrate front end components using **Figma**
- Orchestrated a coding boot camp for the web development team, offering mentorship, assisting in troubleshooting, and moderating code reviews

SKILLS

Technical Languages: Java, Python, R, JavaScript, HTML, CSS, Bash, SQL, RMarkdown
Libraries/Frameworks: React, Node.js, Express.js, Next.js, JUnit, Material UI, Axios, Tailwind CSS, Matplotlib, Beautiful Soup
Tools: Git, Docker, MongoDB, Firebase, Linux, Figma, Jira, Google Cloud Platform, Tableau, Gemini, Visual Studio Code, PyCharm, IntelliJ, Eclipse, RStudio, Microsoft Excel, Google Analytics
Languages: English, Gujarati