Pravesh Kunwar

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Education

University of Michigan Ann Arbor, MI

B.S in Computer Science *Jan. 2024 – May 2026*

- Calculus I, Calculus II, Object-Oriented Programming (C++), Discrete Math, Programming and Intro Data Structures, Data Structures and Algorithms, Intro to Computer Organization, Foundations of Computer Science, Web Systems, Software Engineering, Introduction to Artifical Intelligence

Technical Skills

Languages: HTML, CSS, JavaScript, TypeScript, Python, C, C++
Technologies: React.js, Node.js, Next.js, Vercel, Git, VSCode, MongoDB, Supabase, SQL, Jupyter Notebook

Experience

Michigan Data Science Team Jan. 2024 – Apr 2024

Data Analyst *Ann Arbor, MI*

- Leveraged Spotify's API to extract and analyze user data, uncovering insights into top artists, favorite tracks, listening trends, and streaming patterns, enhancing personalized music discovery.
- Designed dynamic and visually compelling dashboards using Matplotlib, NumPy, and Pandas, enabling users to interact with detailed analytics and gain a deeper understanding of their music habits.

Michigan Hackers Jan. 2025 – Present

Web Develpoment Team Lead *Ann Arbor, MI*

- Teaching a group of 30+ students on the fundamentals of web development, including HTML, CSS, JavaScript, and basics of React.JS and Node.JS. Responsibilities include managing and overlooking projects, taking attendance, presenting slides, etc.

Michigan Hackers - Advanced Web Development Team Aug. 2024 – Present

Software/Lead Developer & Core Member *Ann Arbor, MI*

- Lead some members of the Advanced Web Development Team to design and implement a high-performance networking platform using React.js and TypeScript, enabling University of Michigan students and professors to connect for research and project opportunities.
- Mentoring team members and driving agile development processes, ensuring seamless collaboration, high code quality, and successful integration of advanced web features such as real-time postings and secure authentication.

Projects

findBlue | *TypeScript, React.js, Node.js, Next.js, Vercel, Supabase*

- Collaborating with a team to develop a networking platform for University of Michigan students and professors to find and post opportunities related to research, projects, internships, and collaborations.
- Implementing a responsive frontend using React.js and developing a secure login system to facilitate user interactions such as creating profiles, accessing proposal directories, and managing posted or saved opportunities.
- Utilizing Supabase to manage data storage for user profiles and opportunity postings, while integrating essential features like proposal management, profile systems, and progress tracking for ongoing projects.

Spotify Analysis | *Python, Spotify API, Jupyter, matplotlib*

- Engineered a Python program utilizing Spotify's API to deliver personalized music analytics, extracting insights on most played tracks, top genres, and listening trends.
- Designed dynamic data visualizations using matplotlib to transform raw data into engaging, easy-to-understand charts, enhancing user experience.

Piazza Post Classifier | *C++*

- Developed a machine learning classifier to identify the topic of EECS 280 Piazza posts using natural language processing techniques, implemented with container ADTs, dynamic memory, and binary search trees.
- Designed and utilized efficient classifiers and recursion-based algorithms, achieving high accuracy in categorizing posts by topics and authors; coded training and prediction models for robust performance on real-world data.