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, Database Management Systems

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, Python, C, C++
Technologies: React.js, Node.js, Next.js, Flask, Vite, 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.
- Guiding students through hands-on projects by introducing concepts like responsive design, basic API integration, and debugging techniques, fostering collaborative skills and ensuring foundational understanding of web development principles.

Michigan Hackers - Advanced Web Development Team   Aug. 2024 – Present
Software/Lead Developer & Core Member   *Ann Arbor, MI*
- Led a team within the Advanced Web Development Team to architect and implement a scalable networking platform using React.js and TypeScript. Oversaw key development tasks, facilitated team collaboration, conducted code reviews, and ensured seamless integration of features enabling University of Michigan students and professors to connect for research and projects.

PROJECTS

findBlue | *TypeScript, React.js, Node.js, Next.js, Vercel, Supabase, CSS, MUI*   **GitHub**
- 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.

playlistly | *TypeScript, React.js, CSS, MUI, Vite, Python, Flask, Spotify's API*   **GitHub**
- Designed and developed a full-stack web application leveraging Flask for the backend and React.js with TypeScript for the frontend to interact with the Spotify API, enabling users to generate personalized playlists based on their favorite artists and top tracks.
- Built a secure user authentication system using Spotify OAuth2, implemented efficient backend logic to process artist data and handle API requests, and developed a dynamic frontend with Vite and Axios to display playlist links and manage user interactions seamlessly.

invently.ai | *TypeScript, React.js, Vite, Python, Flask, Supabase, CSS, MUI, Stripe/Gemini API, Chart.js*   **GitHub**
- Built a robust full-stack inventory management platform by combining Flask for backend services and React.js with TypeScript for the frontend. Delivered essential features like real-time analytics, sales trend tracking, and AI-driven inventory predictions to empower users with actionable insights.
- Implemented Stripe API for flexible subscription management and secure payment processing, while integrating Google Gemini API to introduce AI-powered interactions that simplified decision-making and enhanced the overall user experience.
- Created dynamic, interactive data visualizations with Chart.js to showcase product history and inventory trends. Leveraged Supabase for real-time updates and efficient database management, enabling users to monitor changes and make informed decisions with ease.

logify | *Python, Flask, Flask-Mail, Flask-Limiter, itsdangerous, pyotp, Bootstrap*   **GitHub**
- Designed and implemented a secure passwordless authentication system using Flask, integrating Flask-Mail for email delivery and pyotp for generating time-sensitive one-time passwords (OTP) to enable multi-factor authentication. Utilized itsdangerous for creating tokenized login links, ensuring robust security and providing a seamless user login experience.
- Incorporated Flask-Limiter to implement rate-limiting and prevent abuse, styled the frontend with Bootstrap for a responsive and modern user interface, and leveraged the Gmail SMTP server for reliable email communication. Combines advanced security practices with an intuitive design to enhance user authentication workflows.