Pravesh Kunwar

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Education

University of Michigan Ann Arbor, MI

B.S in Computer Science *Expected Graduation: May 2026*

- **Courses Taken:** 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++, SQL
Frameworks/Technologies: React.js, Next.js, Node.js, Vite, Flask, GraphQL, Tailwind CSS, Sass, Material UI, Bootstrap, MongoDB, Supabase, Firebase, SQLite, MySQL, Redux, Docker
Developer Tools: VS Code, GitHub, Vercel, AWS, Heroku, Figma

Experience

Michigan Hackers Aug. 2024 – Present

Web Development Team Lead — Software/Lead Developer — Core Member *Ann Arbor, MI*

- Taught 10+ students the fundamentals relating to fullstack, covering React.js, TypeScript, Next.js, CSS, user authentication and database management, etc. Oversaw projects, tracked attendance, delivered weekly presentations, and encouraged a collaborative environment.
- 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.
- Led two sub-teams developing interconnected platforms: a React/TypeScript networking platform connecting UMich students/professors for research (overseeing development, collaboration, and feature integration) and a gamified internship tracker empowering students in their job search.

Michigan Data Science Team Jan. 2024 – Apr 2024

Data Analyst *Ann Arbor, MI*

- Leveraged Spotify's API and Python libraries (Matplotlib, NumPy, Pandas) to analyze user listening patterns, visualize trends in top artists/tracks, and build interactive dashboards that enhance music discovery through data-driven insights, allowing users to gain a deeper understanding of their music habits.

Projects

Ineed.io | *TypeScript, React.js, Node.js, Next.js, Vercel, Supabase, Figma, Tailwind CSS, shadcn/ui* **GitHub**

- Lead the design and development of an "Internship Tracker" platform, empowering students to effectively manage their internship applications, track progress, and optimize their job search strategy through personalized reminders, intelligent internship suggestions, and comprehensive performance analytics.
- Designed and implemented core features including a centralized application dashboard, interactive progress visualizations (GitHub-style graphs), interview preparation tools, and gamified elements (leaderboards, KD ratio) to enhance user engagement and streamline the internship application process.

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

- Initiated the development of a networking platform that empowers University of Michigan students and professors to discover and share opportunities for research, projects, internships, and collaborations.
- Engineered a responsive frontend with React.js and integrated a secure login system, enabling seamless user interactions such as creating profiles, browsing proposals, and managing saved or posted opportunities.
- Leveraged Supabase to design and maintain scalable data storage solutions, integrating critical features like proposal management, profile systems, and progress tracking to enhance user engagement and streamline project workflows.

Invently.ai | *TypeScript, React.js, Python, Node.js, Vite, 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.
- Incorporated Stripe's API for flexible subscription management and secure payment processing, and Google Gemini's 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. Using Supabase for real-time updates and efficient database management, easily enables users to monitor changes and make informed decisions quickly.

Playlistly | *TypeScript, React.js, Node.js, CSS, MUI, Vite, Python, Flask, Spotify's API* **GitHub**

- 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.

Ultimatum | *TypeScript, React.js, Next.js, Node.js, MUI, Discord.js API, MongoDB, Mongoose, Axios* **GitHub**

- Engineered a comprehensive Discord bot using Discord.js, leveraging MongoDB for database management to store user preferences, server settings, and command configurations. Commands ranged from moderation to interactive and "fun" style commands.
- Designed robust database models to ensure efficient data retrieval and updates, enabling features like customizable moderation tools, developer utilities, and real-time server analytics.