

# PRAVESH KUNWAR

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## EDUCATION

### University of Michigan

B.S in Computer Science

Ann Arbor, MI

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, Informational Retrieval and Web Search

## TECHNICAL SKILLS

**Languages:** HTML, CSS, JavaScript, TypeScript, Python, C, C++, SQL

**Technologies:** React.js, Next.js, Node.js, Flask, Vite, MongoDB, Supabase, Jupyter Notebook, Git, Vercel, vscode

**Certifications:** JavaScript, Problem Solving Beginning & Intermediate (HackerRank); Scientific Computing, Machine Learning, Python (Kaggle, freeCodeCamp); Joy of Coding (University of Michigan)

## EXPERIENCE

### Michigan Data Science Team

Jan. 2024 – Apr 2024

Data Analyst

Ann Arbor, MI

- Utilized Spotify's API to analyze user data, uncovering trends like top artists, favorite tracks, and listening patterns, providing actionable insights to enhance the music discovery experience.
- Constructed dynamic and visually compelling dashboards using Matplotlib, NumPy, and Pandas, empowering users to interact with detailed analytics and gain a deeper understanding of their music habits.

### Michigan Hackers

Aug. 2024 – Present

Web Development Team Lead — Software/Lead Developer — Core Member

Ann Arbor, MI

- Taught 20+ students web development fundamentals, covering HTML, CSS, JavaScript, React.js, user authentication and database management, etc. Oversaw projects, tracked attendance, and delivered presentations.
- 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 a sub team to architect a scalable networking platform utilizing React.js and TypeScript. Oversaw key development tasks, facilitated team collaboration, conducted code reviews, and ensured seamless integration of features that allowed 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](#)

- 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.

**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.

**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.

**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. Designed robust database models to ensure efficient data retrieval and updates, enabling features like customizable moderation tools, developer utilities, and real-time server analytics.
- Launched the bot to over 50+ servers and developed an intuitive dashboard, enabling users to manage and customize commands seamlessly, further enhancing the bot's usability and flexibility.

**logify** | Python, Flask, Flask-Mail, Flask-Limiter, itsdangerous, pyotp, Bootstrap

[GitHub](#)

- Designed 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.