

Manan Vyas

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Education

Michigan State University, Honors College

May 2025

B.S. Computer Science, *minor in Mathematics*

GPA: 3.93/4

Relevant Coursework: Computer Networks, Introduction to AI, App Development, Database Systems, Web Development, Object-Oriented Design, Algorithms and Data Structures, Numerical Analysis, Linear Algebra

Experience

Athlytic

June 2023 – January 2025

Software Development Intern

Detroit, MI

- Designed and built RESTful API handling 100K+ monthly requests with 99.99% uptime using Flask and PostgreSQL.
- Deployed APIs on Google Cloud Compute Engine with automated CI/CD pipeline, enabling zero-downtime updates.
- Created autonomous AI Agents for cold outreach campaigns, achieving a 6% response rate, acquiring new clients, and increasing MRR by 18%.
- Automated large-scale data collection from public websites using Python, replacing manual data entry processes, improving data-driven decision-making, and saving over 2000 hours annually.
- Created AI chatbots with Retrieval-Augmented Generation (RAG) using Python, integrating personalized assistance for athletes, brand matching, and NIL deal analysis into the platform.
- Worked closely with the CEO and product lead in agile development, contributing to feature planning, QA testing, and product improvement discussions.

Projects

Healthcare Payer Price Transparency | Senior Capstone Project with HAP

December 2024

- Built a Flask-based web application to process and analyze complex health insurance data from large Machine Readable Files (MRFs), allowing users to compare different insurance plans.
- Integrated the front and back end by developing RESTful API endpoints, then deployed the application on Google Cloud VM with Nginx.

Timesheet Portal

February 2024

- Made a timesheet management system using Python and Streamlit, implementing object-oriented design principles and role-based access control for different user types.
- Used PostgreSQL for data storage and Mailgun API with cron jobs for automated email notifications.

City Buddy | Best UX winner (SpartaHack 8)

January 2023

- Provided real-time safety insights and smart routing for tourists by developing a full-stack web application using MERN Stack, Mapbox, and Google's Geocoding API.

Skills

Languages: Python, C++, Assembly, JavaScript, Dart

Frameworks: Flask, Django, Node.js, React, Flutter

Cloud: GCP (Compute Engine, Cloud Functions), AWS, Docker, CI/CD, Nginx

Database: PostgreSQL, MySQL, Firebase

Operating Systems & Networking: Linux/Unix, TCP/IP, HTTP, REST APIs

Achievements and Involvements

- Admitted to the Dean's List and MSU's honors program for exceptional academic performance and standing in the top 10% of students at MSU.
- Developed quickheal.me during India's second COVID-19 wave, helping 5000+ users across 11 states.
- Lead designer for the Smart Attendance Project at MSU AI Club.