

Manan Vyas

vyasmana@msu.edu | (517) 980-1536 | github.com/mananrvyas | linkedin.com/in/mananrvyas | mananvyas.com

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

Experience

PwC East Lansing, MI

Software Engineer in Test December 2025 - Present

- Automated Playwright (C#) tests for PwC's Next Gen Audit platform, working with developers to validate features, reproduce/debug defects, and support release testing.
- Reduced regression pipeline runtime from 10+ hours to 3 hours by restructuring UI test execution and cutting unnecessary trace/video capture in CI.

Athlytic Detroit, MI

Software Engineer June 2025 - October 2025

Product and Software Development (AI) Intern June 2023 - January 2025

- Developed internal athlete sourcing platform (FastAPI, React, and PostgreSQL) with natural-language search for athlete filtering, outreach, and campaign response classification - used by the team to find athletes for brand campaigns.
- Built and maintained Flask microservices for AI workflows, backend automations, and internal tooling, handling 100K+ monthly requests.
- Built brand marketing pipeline with AI-generated email sequences, scheduling, and response classification, helping generate \$3M+ in proposals with brands including Instacart, Uber, and Wendy's.
- Ran distributed Python scrapers across multiple VMs with proxy rotation to collect 2M+ athlete profiles from the NCAA public database.
- Deployed and ran services across Google Cloud Compute Engine using Nginx, PM2, and GitHub Actions for CI/CD.

HAP East Lansing, MI

Software Developer, Senior Capstone Project August 2024 - December 2024

- Built Flask web application for CMS pricing analysis, enabling HAP to compare competitor rates and procedure coverage across 50K+ providers.
- Processed large CMS pricing files (up to 100GB) without memory crashes by parsing JSON in chunks and storing normalized results in Parquet for downstream analysis.

Projects

SpinTravel.ai October 2025 - December 2025

- Built a B2B AI travel agent with 30+ tools for flight/hotel booking, itinerary management, and cross-platform conversation memory across Slack, SMS, email, and web.
- Migrated workflows from n8n to a custom LangChain architecture with LangSmith observability, reducing response times from 8+ minutes to under 30 seconds.

Skills

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

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

AI: LangChain, MCP

Cloud/DevOps: GCP (Compute Engine, Cloud Functions), AWS, Docker, Nginx, PM2

Database: PostgreSQL, MySQL, Firebase