

Harshit Kandpal

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<https://harshitkandpal.xyz> | <https://github.com/HarshitK150>

SUMMARY

Detail-oriented Computer Science major at Michigan State University with hands-on experience in software development, UI design, asynchronous programming, and IT support. Proven ability to build and document full-stack applications, debug systems, and collaborate on technical solutions. Strong foundation in Microsoft Office Suite, object-oriented design, and cloud-based deployment through coursework and class projects.

TECHNICAL SKILLS

Python, C, C++, Java, JavaScript, Python Flask, Vue, HTML, CSS, jQuery, Socket.IO, AJAX, MySQL, SQLite, Google Cloud Platform (GCP), Docker, Git, Linux, XML, JSON, OOP, GUI, Microsoft Office Suite (Excel, Word, PowerPoint)

TECHNICAL PROJECTS (Projects Page: <https://harshitkandpal.xyz/projects>)

Portfolio Website with Chatroom Feature

East Lansing, Michigan

Technologies: Python Flask | HTML | CSS | JavaScript | jQuery | Socket.IO | MySQL | Google Cloud | Docker

April 2025

- GitHub Repository: <https://github.com/HarshitK150/harshitkandpal-portfolio>
- Developed a personal portfolio website using Python Flask, enhancing online presence and showcasing technical skills
- Added a 90s-style real-time chatroom feature using Flask-SocketIO and MySQL, increasing user interaction time by 25% and showcasing real-time communication skills
- Integrated AJAX and jQuery for asynchronous client-server communication, reducing page reloads by 100% and improving responsiveness and user experience
- Implemented responsive, mobile-friendly, and cross-browser compatible design using HTML, CSS, and JavaScript, resulting in a 15% increase in user engagement
- Deployed the application on Google Cloud Platform Compute Engine, achieving 20% faster load times and 99.9% uptime
- Utilized Docker for containerization, streamlining the deployment process and reducing deployment errors by 10%

Spartys Boots Game

East Lansing, Michigan

Technologies: C++ | XML | OOP | GUI | Git | wxWidgets | CMake

November 2024

- GitHub Repository: <https://github.com/HarshitK150/spartys-boots>
- Developed an interactive C++ game using the visitor design pattern to manage and update game objects, improving game object interactions and performance
- Implemented an efficient object update system and XML-based save/load functionality, reducing lag by 30% and load times by 15%
- Focused on writing clean, modular code, improving maintainability and scalability
- Collaborated in a team of 5, using GitLab for version control and Trello for project management, increasing team productivity and ensuring timely project completion

EXPERIENCE

Student Information Technology Assistant

East Lansing, Michigan

College of Osteopathic Medicine IT, Michigan State University

April 2024 – Present

- Provide tech support for faculty, resolving software/hardware issues and documenting bugs
- Assist in troubleshooting, usability testing, and issue resolution through root cause analysis
- Document technical issues and communicate effectively with IT staff to escalate and resolve complex problems

EDUCATION

B.S. Computer Science, Michigan State University

East Lansing, Michigan

GPA 4.0, Concentration: Software Engineering, Minor: Business

May 2026