

# Harshit Kandpal

517-944-6845 | [hkandpal944@gmail.com](mailto:hkandpal944@gmail.com) | [linkedin.com/in/hkandpal-cs](https://linkedin.com/in/hkandpal-cs) | [github.com/HarshitK150](https://github.com/HarshitK150) | [harshit-kandpal.vercel.app](https://harshit-kandpal.vercel.app)

## EDUCATION

<b>Michigan State University</b> <i>B.S. in Computer Science (Concentration: Software Engineering) — Minor: Business</i>	East Lansing, MI	May 2026
<ul style="list-style-type: none"><li>• <b>GPA:</b> 3.99/4.00   <b>Honors:</b> Tau Beta Pi Engineering Honor Society, Dean's List (All Semesters)</li><li>• Honors College Excellence Scholarship &amp; International Tuition Grant Recipient</li></ul>		

## EXPERIENCE

<b>Magna International</b> <i>Software Engineering Lead (Capstone Project)</i>	East Lansing, MI	
<ul style="list-style-type: none"><li>• Directing an <b>Agile team</b> to architect a web-based CAD assistant using <b>FastAPI</b>, <b>Python</b>, <b>Next.js</b>, and <b>Tailwind CSS</b>, aiming to reduce manual geometry editing time by <b>35%</b></li><li>• Engineered an interactive AI annotation system leveraging <b>LLMs</b> to automate repetitive modeling tasks, saving engineers an estimated <b>2.5 hours per design iteration</b></li><li>• Integrated <b>FreeCAD's backend API</b> with a React-based frontend to enable real-time CAD rendering and programmatic geometry manipulation within the browser</li></ul>		
<b>PromoterMotor</b> <i>Software Engineering Intern</i>		Remote
<ul style="list-style-type: none"><li>• Launched an automated video content pipeline using <b>Node.js</b> and <b>Hugging Face Transformers</b>, automating 10+ hours of weekly video production tasks</li><li>• Developed custom web-scraping and workflow tools via <b>Google Apps Script</b>, resulting in a <b>30% increase</b> in team productivity and 2x increase in lead data acquisition</li><li>• Optimized transformer models for script-to-video workflows, achieving high-fidelity output for YouTube distribution with minimal manual intervention</li></ul>		Sep. 2025 – Feb. 2026

## TECHNICAL PROJECTS

<b>Quote Battle</b>   <i>React, Node.js, Express, Tailwind CSS, PostgreSQL, CI/CD</i>	Aug. 2025
<ul style="list-style-type: none"><li>• Developed a full-stack voting platform using a <b>RESTful API architecture</b>, managing dynamic user interactions and global leaderboard state</li><li>• Architected a relational schema in <b>PostgreSQL</b> via <b>Supabase</b> to ensure data integrity and optimized query performance for high-frequency voting actions</li><li>• Implemented an automated <b>CI/CD pipeline</b> via Vercel and Render, reducing deployment time by <b>90%</b> and ensuring seamless version control</li></ul>	
<b>90s Chatroom</b>   <i>Flask, Socket.io, MySQL, Docker, GCP Cloud Run</i>	Jan. 2025
<ul style="list-style-type: none"><li>• Engineered a real-time messaging application using <b>Socket.io</b> and <b>Flask</b>, facilitating instantaneous communication via WebSockets</li><li>• Containerized the application using <b>Docker</b> and deployed to <b>GCP Cloud Run</b>, implementing a serverless architecture to handle scalable traffic</li><li>• Developed a persistent backend with <b>MySQL</b> and used <b>AJAX</b> for asynchronous state updates, reducing server-side overhead by <b>40%</b></li></ul>	

<b>Sparty's Boots</b>   <i>C++, wxWidgets, XML, CMake, Agile</i>	Feb. 2024 – Apr. 2024
<ul style="list-style-type: none"><li>• Collaborated in an <b>Agile team</b> to engineer a physics-based puzzle game, managing <b>10+ feature branches</b> via Git and resolving cross-platform GUI rendering issues</li><li>• Developed a modular logic-gate simulation engine in <b>C++</b>, maintaining a consistent <b>60 FPS</b> while processing complex <b>XML-based</b> object states</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, JavaScript, TypeScript, SQL, HTML/CSS  
**Frameworks:** FastAPI, React, Next.js, Node.js, Express, Flask, Tailwind CSS, wxWidgets  
**Tools & Cloud:** AWS, GCP, Docker, Linux/UNIX, Git, CI/CD (Vercel/Render), PostgreSQL, MySQL  
**Certifications:** AWS Certified Cloud Practitioner