

# SAARTHAK SHARMA

(248)-206-9746 | [sharm157@msu.edu](mailto:sharm157@msu.edu) | [linkedin.com/in/saarthaksharma1/](https://www.linkedin.com/in/saarthaksharma1/) | [github.com/saarthaksharma1](https://github.com/saarthaksharma1)

## OBJECTIVE

Passionate about building secure, scalable systems by combining software development, system design, and optimization. Areas of interest include creating efficient, user-centric applications and supporting innovative forward-thinking teams.

## EDUCATION

**Michigan State University, College of Engineering**

*B.S Computer Science, Business Minor, GPA: 3.68*

May 2025

*East Lansing, MI*

## TECHNICAL SKILLS

**Languages:** Python, SQL, C++, Java, JavaScript, HTML, CSS, Dart, Bash

**Tools/Frameworks:** PostgreSQL, Flask, PyTorch, SQLAlchemy, AI, Google Firebase, CI/CD, CSV/ETL, GitHub, Gitleaks, Docker, Selenium, BeautifulSoup, Flutter, Google Cloud Platform, Linux Systems, Wireshark, Dash, Pandas, NumPy

**Concepts:** Data Migration/Quality, Agile/SCRUM, Documentation, SIEM, REST APIs, OWASP, Vulnerability Management

## EXPERIENCE

**Information Technology Intern**

May 2024 – Aug. 2024

*Mercedes-Benz Financial Services*

*Farmington Hills, MI*

- Reduced exposed-secret risk by remediating across 10 internet-facing repositories within 12 weeks by running **Gitleaks** and **building Python scripts** for JSON results to mitigate exposed API keys, tokens, and credentials.
- Assisted migration to **HashiCorp Vault** to centralize secrets and automate credential rotation, reducing exposure window to security threats.
- Devised a security dashboard to track vulnerabilities and streamline code cleanup for application developers.
- Built a **SQLite store** for Jira/Confluence access lists by implementing **Python with OpenAI's API** to parse through CSVs, eliminating spreadsheet hunts and streamlining weekly access reviews.

**Quality Assurance Methods Intern**

May 2023 – Aug. 2023

*Yazaki North America Headquarters*

*Canton, MI*

- Orchestrated internal/external audits by methodical evidence collection, verifying compliance with quality standards.
- Revamped internal SharePoint UI utilizing CSS/JavaScript for enhanced report presentation and usability.
- Delivered KPI dashboards in Power BI, enabling better data metric visualization for long term.
- Eliminated recurring data errors through validation rules and migrating Excel sheets to SharePoint lists across audits.

**Undergraduate Learning Assistant**

Aug. 2024 – May 2025

*Michigan State University*

*East Lansing, MI*

- Mentored 300+ students in OOP and data structures in C++, increasing average grades by 20%.
- Provided 1-on-1 support in object-oriented C++ design, boosting students' coding proficiency significantly.

## PROJECTS

**HAP Customer Intent Engine/Training Tool** | *Python, Flask, Dash, PostgreSQL, GPT-4o*

Jan. 2025 – May 2025

- Established full-stack integrations for the web application through Flask, HTML, CSS, and JavaScript, while Dockerizing the PostgreSQL database for scalable chatbot data storage and user authentication.
- Extracted key customer insights via Python (Pandas) + Dash, analyzing call frequency, topic keywords, and intent distribution to strengthen call center training and AI response accuracy.
- Expanded chatbot knowledge base by implementing web scraping techniques using Selenium and BeautifulSoup, dynamically gathering relevant customer support information for efficient chatbot responses.

**Jira/Confluence CSV to SQL Database Migration** | *Python, CSV, Rest API, SQLite, OpenAI*

July 2024 – Aug. 2024

- Partnered with three interns to migrate user access lists for Jira/Confluence from CSV files to SQLite database by Python.
- Implemented MBFS' internal OpenAI API calls for significantly increased data retrieval.

**Service Trail Mobile Application** | *Flutter, Dart, Google Firebase*

Sep. 2023 – Dec. 2023

- Collaborated with a team of six in designing the "Service Trail" app using Flutter, Dart, and Google Firebase, enabling users to explore and create community service opportunities.
- Developed app's features with an emphasis on user-friendly design and seamless cross-platform functionality.
- Focused on the app's management page, ensuring the verification of legitimate service opportunities and organizational integrity, thereby establishing a secure platform for community engagement.

**Personal Website Portfolio** | *HTML, CSS, JavaScript, Flask, Docker, Google Cloud Platform*

Aug. 2024 – Present

- Developed a responsive full-stack website using HTML, CSS, and JavaScript to showcase projects and experience.
- Managed Flask back-end with dynamic routes and deployed site using Docker containers on Google Cloud Platform.
- Configured API routes and SQLite for secure user authentication and dynamic content.
- Formulated a real-time chat page enabling simultaneous user interaction and enhanced engagement.