# Vanshika Kadian

East Lansing, MI | 517-763-1351 | [Vanshika LinkedIn](#) | [vanshikadian.com](#) | [kadianva@msu.edu](#) | [github.com/vanshikadian](#)

---

## EDUCATION

**Michigan State University, Honors College**                                                                    **East Lansing, MI**
*Bachelor of Science* in Computer Science, **Cumulative GPA: 3.77/4.00**                                              *5/2026*
***Awards***:  Dean's List, Honors Excellence Award ($13,000 annually), International Tuition Grant ($25,000 annually), TATA Alankar Award for Excellence in swimming

## WORK EXPERIENCE

**Bosch Global Software Technology**
*Software Engineering Intern*                                                                                   *6/2024- 8/2024*
- Collaborated with cross-functional teams to develop and optimize software algorithms for real-time object detection using CNNs, improving system performance by 25% and reducing processing time by 30%.
- Applied C++ for performance-critical aspects, including debugging and resolving performance issues in Advanced Emergency Braking Systems, increasing system accuracy by 20% and minimizing false positives by 15% through ensemble learning techniques.
- Enhanced user experience and customer satisfaction by 10% through sentiment analysis on over 100,000 textual data points using transformer-based architectures, directly informing product strategies.

**Elsamex, Ltd.**
*Backend Developer Intern*                                                                                       *5/2024- 7/2024*
- Spearheaded the development of an internal asset management system for Elsamex, utilizing Django and Flask to create a secure and efficient backend infrastructure.
- Designed and implemented robust SQL databases to manage and track company assets, resulting in a 40% improvement in asset tracking efficiency.
- Contributed to the full software development lifecycle, implementing key backend components to support data management and scalability, aligning with business needs while adhering to security standards.

**MSU New Student Orientation**
*App Developer*                                                                                                  *5/2024- 9/2024*
- Developed the MSU NSO app using JavaScript, React, React Native, and Firebase, enhancing the onboarding experience for over 20,000 new students.
- Assisted in planning key student events, conducted interviews, and trained over 100 Spartan Leaders, contributing to a 25% increase in event participation and ensuring a successful NSO program.
- Implemented user-focused features while adhering to React best practices, enhancing both **iOS** and **Android** user experiences through Xcode and Android Studio environments.

**MSU Infrastructure Planning and Facilities**
*IT Student Technician*                                                                                        *2/2024- Present*
- Provided technical support for computer and mobile device hardware, ensuring optimal system functionality through maintenance and troubleshooting.
- Managed software installations and updates across multiple platforms, enhancing system reliability and security.
- Coordinated the deployment of technology equipment across campus, improving operational efficiency.

## TECHNICAL SKILLS

**Languages:** Python, C++, HTML/CSS, JavaScript, SQL, R, Dart| **Developer Tools**: VS Code, Google Firebase, Android Studio, PyCharm, Jupyter Notebook, Docker | **Frameworks:**  GitHub, React, React Native, Node.js, Django, Flask, TensorFlow, Keras, Scikit-learn, Seaborn, Pandas, NumPy, Flutter, Bootstrap

## PROJECTS

**Resume Screening Tool** | *Python, Flask, HTML, CSS, Bootstrap, Chart.js, Git, GitHub*
- Developed a web-based tool to automate the screening of resumes against job descriptions using Flask and Python.
- Implemented an intuitive front-end with Bootstrap and Chart.js, allowing users to visualize resume analysis through progress bars and charts.
- Used the tool during my own recruiting season and shared it with friends, helping them refine their resumes based on automated feedback.

**Personal Budget Tracker-** *Python, SQLite, Tkinter, Matplotlib, Data Visualization*
- Developed a Python, SQLite, and Tkinter-based personal finance tracker, improving budget management efficiency by 30% and user interaction time by 25% with a streamlined interface and real-time data visualization.
- Implemented CRUD operations for transactions and budgets, with data stored in an SQLite database, achieving a 100% accuracy rate in financial record management.
- Planned future migration to a web-based platform, projected to increase accessibility by 60% and expand the potential user base by 80%.

## LEADERSHIP

**Michigan State University, Resident Assistant**                                                              *Fall 2024 - Present*
- Fostered an inclusive residential community, enhancing student engagement and promoting academic success.
- Resolved conflicts and addressed resident concerns, demonstrating strong problem-solving and mediation skills.

**TechConnect, Founder**                                                                                       *Spring 2024- Present*
- Founded and led a student organization to support networking, professional growth, and innovation for MSU students.
- Organized events and workshops connecting students with industry professionals and alumni for career opportunities.