

## Sai Pramodh Varma Byrraju

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### EDUCATION

#### Michigan State University | Honors College

December 2024

- Bachelor of Science | Computer Science, CMSE minor (Computational Mathematics, Science and Engineering)
- Honors College | Dean's list

GPA 3.69

**Notable Courses:** CSE 498 (Capstone, Collaborative Design), CSE 404 (Intro to Machine Learning), CSE 335 (Object-Oriented Software Design, C++), CSE 480 (Database Systems, C++), CSE 476 (Mobile Application Development, Java), CSE 331 (Algorithms and Data Structures, Python), CSE 440 (Intro to AI)

### SKILLS

#### Programming Languages

Python, C++, C, C#, Java, Typescript, SQL, Dart, Assembly, R, Shell, HTML, CSS

#### Technical

OOP, Node.js, Angular, React, MongoDB, OpenCV, Git, Firebase, FastAPI, PyTorch, Excel, Photoshop, Unity

### PROFESSIONAL EXPERIENCE

#### IT Intern | Tech Mahindra

June 2024 – Aug 2024

- Delivered desktop engineering for Jackson, ensuring seamless operation and minimizing downtime for over 500 end-users.
- Resolved support tickets using BMC Remedy for Jackson employees, ensuring timely issue resolution.
- Collaborated with Jackson's IT team to resolve critical issues, enhancing system reliability and user satisfaction.

#### MSU Capstone Application Developer | Whirlpool

Jan 2024 – May 2024

- Developed a smart oven application using BERT, now being integrated into Whirlpool's ovens, delivering personalized recipe recommendations based on user cooking habits
- Built and integrated the application with Dart, and a data-driven dashboard using JavaScript and Plotly.
- Enhanced user experience by fine-tuning ML models, leveraging MongoDB and FastAPI for seamless data and API communications.
- Conducted survey with users, achieving an 89% satisfaction rate, validating the model's effectiveness.

#### Student Accountant | MSU Business and Financial Services (BFS)

June 2022 – Jan 2023

- Displayed capability to be a productive team member through accuracy and thoroughness in tasks such as computing, data entry, and filing.
- Handled several accounting necessities like operating statements, and reconciliations.

#### Teaching Assistant & Tutoring | MSU

Aug 2021 – Jan 2023

- Assisted students in courses as a Teaching assistant, and Tutor: CSE 335, CSE 232, CSE 102, ACC 230, EC 251, MTH 103
- Lead classes with over 70 students. Provided 1:1 sessions, Aiding students to learn and improve grades.

#### Service Center Representative | MSU

May 2023 – Present

- Provided customer service and clerical support to residence hall students and visitors, managing inquiries.
- Handled mail, packages, and reception duties, maintaining a welcoming reception.

### PROJECTS

#### Custom Python DBMS (Python, SQL)

March 2023

- Developed a custom Python module that emulates the behavior of Python's built in SQLite3 module.
- Designed the module to generate a Database and manage the Database system.
- Added functionality for the module to execute SQL statements such as Creating tables, inserting rows, selecting rows, updating, and joins.

#### Bug Squash (C++)

Feb 2023

- Designed and developed a complex Bug squash program from scratch. Created a dynamic user interface and implemented a debugging strategy to deliver a fully functional game.
- Led task segmentation and milestone tracking, driving project completion ahead of schedule while enhancing team productivity.

#### Smart Grocery Manager (Java, Android Studio)

Oct 2023

- Built a grocery management app in Android Studio, featuring multi-screen navigation and efficient user interface.
- Used Java and XML to create intuitive UI, including dynamic greeting messages based on user preferences.
- Optimized user flow with intent-based transitions and efficient activity lifecycle management.

### TECHNICAL EXPERIENCE

#### Association for Computing Machinery (ACM) | AI Project Manager | Michigan State University

- Involved in frequent meetings of the association to meet like-minded individuals that are passionate about computer science.
- Managed teams aiding them with technical interview skills and competitive programming. Collaborated with the association's president to help students navigate through coding.

#### Spartan Blockchain Solutions (SBS) | Technical Analyst | Michigan State University

- Committed with the non-profit blockchain firm in advising and providing local businesses and organizations with innovative blockchain solutions.
- Developed skills through various internal workshops, and networking with professionals in blockchain space.