

# Raj Bajaj

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## EDUCATION

**Michigan State University** | East Lansing, MI

**Honors College**

**Bachelor of Science, Computer Science**

**Bachelor of Arts, Finance**

Recipient of Dean's list: Fall – 2020, Spring – 2021, Fall – 2021

**Courses:** Algorithms and Data Structures; Machine-Learning; Artificial Intelligence; Object-Oriented Programming; Computer Architecture and Organization; Agile Software Development Method; Data Analysis, Data Visualization, Computer Vision

May 2023

Cumulative GPA – 3.94 / 4.00

## WORK EXPERIENCE

**Michigan State University** | East Lansing, MI

August 2021 – Present

**Teaching Assistant – Algorithmic Programming**

- Leading and organizing weekly labs session of 30 students while teaching Python, supporting students, and developing students' logical thinking helping them to write Python algorithms.
- Mentoring and aiding students in learning basic algorithmic programming using Python by responding to queries on Piazza, hosting Office Hours which resulted in improvement in grades by 83%.
- Gaining knowledge regarding important interpersonal and managerial skills, including planning and administrative duties and leadership skills by being the student's mentor.

**Michigan State University** | East Lansing, MI

August 2021 – Present

**Teaching Assistant – Calculus for Engineers**

- Hosting weekly lectures with the Professor for 200 students while responding to students' queries within time and according to the requirements to ensure proper learning.
- Addressing and solving diverse students' doubts, while leading recitations of 50 students and organizing the Math Centre to enable students to excel in the course by increasing students' attendance by 62%.

**Shree Tirupati Enterprises** | Nagpur, India

April 2021 – June 2021

**Software Engineering Intern**

- Effectively worked with the start-up's professional team to design, implement, and then test tools and technologies primarily coded in Python, C++, MySQL, C to digitalize the company's human resources software resulting in annual savings of \$24,000.
- Fostered a technology-oriented environment by digitalizing and integrating data collection and analysis software in accordance with the company's management to increase operational efficiency by 25%.
- Independently performed quality assurance (QA) on existing mappings, successfully catching bugs, code violations, and sub-standard characteristics to be corrected before being launched into production.

## LEADERSHIP

**Michigan State University** | East Lansing, MI

August 2021 – Present

**Resident Assistant**

- Establishing an inclusive community of 46 residents through the organization of exciting social events and regular floor meetings by overseeing a budget of \$500.
- Developing leadership and organization expertise by managing administrative duties and effective communication with various stakeholders.

## PROJECT

**UML Wars** (<https://github.com/bajajraj/UML-Wars>)

October 2021

- Created a fully functional GUI-based game in C++ using wxWidget. Platforms used in-game was Microsoft Visual Studio, GitHub, Visual Paradigm.

**Canadian Experience** (<https://github.com/bajajraj/CanadianExperience>)

December 2021

- Created a basic animation program completed with timelines, keyframes, and twining using C++ and Microsoft Foundation Classes for the development process.

## ACTIVITIES AND HONORS

- **MSU Association of Machinery**, Member
- **MSU Solar Car Racing Team**, Member

February 2020 - Present

October 2021 – Present

## SKILLS

- **Advanced** - Python, C++, Microsoft Office Suite, Microsoft Excel, NumPy, Pandas
- **Intermediary** - C, MySQL, Tableau, Jupyter Notebook, Git, SQL, R, Power BI, Keras, TensorFlow, Scikit
- **Basic** – ARM Architecture, Bloomberg Terminal