

Raj Bajaj

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EDUCATION

Michigan State University | East Lansing, MI

August 2019 - December 2023

Honors College, Dean's List – 6 / 6 semester

Cumulative GPA – 3.94 / 4.00

Bachelor of Science, Computer Science

Bachelor of Arts, Finance

Courses: Algorithms and Data Structures; Machine-Learning; Artificial Intelligence; Object-Oriented Programming; Agile Software Development Method; Data Analysis, Data Mining, Data Visualization

WORK EXPERIENCE

Software Developer Intern

May 2022 – Present

Public Consulting Group (PCG) | Boston, MA

- Developing EDI Gateway Interface for exchanging healthcare data using .NET framework, C#, and SQL to replace outsourced EDI vendor which will result in an estimated saving of \$1 million and increase data exchange rate by 30%.
- Building API interfaces, assisting with EDI Gateway Transaction Management Website (HTML5/CSS/JavaScript/Node.js) using REST APIs for better client experience as part of the technology team.
- Integrating EDI Data into ARMs application and working with various cross-functional teams to build out exchanging healthcare data website in ASC X12 EDI format with Trading Partners.

Teaching Assistant - Algorithmic Programming

August 2021 – May 2022

Michigan State University | East Lansing, MI

- Led and organized weekly labs session of 30 students while teaching Python responding to queries, hosting office hours, and developing students' logical thinking helping them to write algorithms resulting in improvement in grades by 83%.
- Gained knowledge regarding important interpersonal and managerial skills, including planning and administrative duties and leadership skills by being the student's mentor.

Software Engineering Intern

Apr 2021 - June 2021

Shree Tirupati Enterprises | Nagpur, India

- Collaborated with the team to design, implement, and then test tools and technologies primarily coded in Python, C++, MySQL, and C to digitalize the company's data analytics software resulting in annual savings of \$24,000.
- Fostered a technology-oriented environment by digitalizing and integrating data collection and analysis software by the company's management to increase operational efficiency by 25%.

LEADERSHIP EXPERIENCE

Resident Assistant

August 2021 - Present

Michigan State University | East Lansing, MI

- 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.

PROJECTS

SteamPunked

April 2022

- Created a multiplayer Android App with Android Studio, XML, PHP, SQL, and Java with scaling and multitouch capabilities.
- Learned to make client-side and server-side communication to create a multiplayer remote play with login abilities.

UML Wars

October 2021

- Created a fully functional GUI-based application in C++ using wxWidget, Visual Paradigm, and used Git for cross-function.
- Implemented various OOP concepts like encapsulation and inheritance and used data structures to optimize the capabilities.

ACTIVITIES

- **MSU Association of Machinery**, Member

February 2020 - Present

- **MSU Solar Car Racing Team**, Member

October 2021 – Present

SKILLS

Advance – Python, C++, NumPy, Pandas Library, SQL Databases, Git, GitHub, HTML5, CSS, Scikit-Learn, C#, Microsoft Excel

Intermediate – R, MySQL, Matplotlib, .NET Framework, .NET Architecture, Power BI, LINUX/UNIX, JavaScript, TensorFlow, PyTorch, REST APIs

Basic – Java, C, Keras, AWS, ARM Architecture (32-bit, 64-bit), Android Studio, NoSQL (MongoDB), Tableau