

Rohan Banerjee

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Technical Skills

Python, C++, React JS, Node.js, Flutter, Web Development (HTML, CSS, JavaScript), MongoDB, SQL, AWS, Linux, SLURM, Flask

Education

Michigan State University, E. Lansing, MI

Dec 2025

Bachelors of Science in Computer Science, Minor in Business & Entrepreneurship, and Innovation

Experience

Michigan State University, E. Lansing, MI

Aug 2022 - Present

Institute Of Cyber Enabled Research (ICER), Research Assistantship

July 2023 - Present

- **Collaborated** closely with Dr. Xiaoge Wang in ICER XOR lab, helping in the **data classification** and conducting performance testing of diverse **SLURM** Job Scripts and modules in **High Performance Computing (HPC)** on Linux.
- **Developed** a benchmark testing software to analyze the performance metrics of various **Compute Unified Device Architecture (CUDA)** modules and scripts.

Department of Computer Science (Computer Vision Lab), Research Assistantship

Sep 2022 – Jan 2023

- **Collaborated** with Dr. Xiaoming Liu, helping in the **BRC** data set labelling process using the Ultimate Labelling program from **GitLab** to increase the efficiency of the real time detection.

Portfolio, Personal Projects

- **Collaborated** with a team of 3 to develop an **AI** based software crash detection system using **Python** (backend), **React JS** (frontend), **MongoDB** (Database) and **MindsDB** (Training model), which empowers developers to swiftly identify and categorize the type of software crash that occurred in users' system eliminating the need for manual report submissions and significantly streamlining the development process.
- **Collaborated** with a team of 4 to build an **AI** based application that makes detailed notes from YouTube transcriptions using **Python(Flask)**, **OpenAI api (DaVinci 03 engine)** and **YouTube_transcript api** backend.
- **Developed WiseAI**, a **Python** project that utilizes **OpenAI's GPT-3** language model to predict stock prices with high accuracy. Integrated **Yahoo Finance API** and **OpenAI API (DaVinci Engine 02)** to gather and analyze large volumes of financial data for real-time stock price prediction.
- **Collaborated** with a team of 4 during **Sparta Hack 8** and developed a fast delivery app (quick drop) using **Flutter**, **Google Maps API** and **MongoDB Atlas**, which gave users the ability to drop to deliver a wide array of items locally in a quick and most efficient sustainable way. We were able to increase the delivery process **40%** more quicker.
- **Constructed** an object detection application using **OpenCV python**, frozen inferences (weights), **mobiledssnet** (configuration) and **coco.names** (classes); which detects object in the real time with a good accuracy (confidence threshold above **80%**).

TechSmith Corporation, East Lansing, Michigan

May 2023 - Aug 2023

Software Testing Intern, QA

- Contributed to product quality by learning effective testing strategy, planning, and execution.
- Gained proficiency in **software testing practices** and basic core competencies, including creating and **logging bugs**, testing various features, performing **exploratory testing**, and working in an **Agile software development environment**.
- Collaborated with team members to log, prioritize, and resolve a substantial number of defect, ensuring the **functionality** and **reliability** of the software.
- Collaborated in creating and implementing testing guidelines for transition and certification of **IPv6**-compliant products in order to ensure continuing ability to sell to existing customers resulting in maintaining **millions** in recurring revenue.
- Provided stakeholders with comprehensive feedback on the quality of the product or specific features, assisting in decision-making processes and driving continuous improvement efforts.

Leadership & Activities

Targetist, Founder

March 2023 - Present

- Developed an **AI** based task automation software, employing rerouting principles for automated task-scheduling.
- Collaborated with a team of 3 to create the **frontend** using **React Native** while overseeing the integration of backend functionalities using **Python** and **AWS**(Database).
- Successfully managed finances and executed strategic plans to drive business growth.

International Student Association (ISA), Co-Director of PR & Graphic Design

Jan 2023 - Present

- Created Graphics for Instagram and posters; wrote newsletters for 120+ international students.
- Designed and created the official website.

Spartan Hackers, Member

Aug 2022 – Present

- Worked with the marketing and PR team to organize Sparta Hack 08
- Created Graphics for posters and website.

Boilermake X (MLH), Participant

Jan 2023

- Collaborated in a team of 3 and engineered an app that allowed users to checkout easily through their phones without the usage of checkout counters.

Blogger/ Writer

- Published my book ‘War Tales – Short stories on Second World War’ globally; also writes literary blogs.

Achievements

Michigan State University, International Tuition Scholarship and Presidential Scholarship

Jul 2022