Rashmil Panchani

📞 +1(217) 904-8844   ✉ rmp6@illinois.edu   in rashmil-panchani-67587a14b   ⓞ Rashmil-1999   rashmil-1999.github.io

Education

University of Illinois at Urbana-Champaign   **Dec. 2022**
Master's, Computer Science

University of Mumbai, Dwarkadas J. Sanghvi College of Engineering   **Jul. 2021**
Bachelor's, Computer Engineering   *GPA: 3.99/4.00*

Technical Skills

Programming Languages: Python, JavaScript, C, C++, Go, Java.

Libraries & Frameworks: Node.js, Flask, Django, HTML, CSS, Bootstrap, React, GraphQL, Keras, TensorFlow, OpenCV, NumPy, Pandas, Matplotlib, Arduino, WebRTC, NLTK, Fast API.

Databases: MySQL, PostgreSQL, SQLite, MongoDB, Redis.

Tools & Platforms: Git, Docker, AWS, GCP, Heroku, Hasura.

Experience

National Center For Supercomputing Applications (NCSA)   **Champaign, Illinois**
Graduate Research Assistant   *Sept. 2021 – Present*
- Working as a **Full Stack Web Developer** and a **researcher** for the Oceans-1876 project.
- This project contains data collected by the **H.M.S. Challenger during the years 1873-76** and I am tasked to analyze it.
- Developed **searching**, **inserting** and **sub-sampling** algorithms from OCR data into the PostgreSQL database.

Phionike Solutions   **Mumbai, Maharashtra**
Technology and Machine Learning Research Intern   *May 2019 – Jul. 2019*
- Helped pioneer a new **Research and Development** department, for various project ventures.
- Performed **risk and requirements analysis** of potential projects.
- **Developed and deployed an Alexa Skill** that can read blogs for the user from the requested feed.

Projects

Smart Garden —   *React, Hasura, GraphQL, Arduino, RaspberryPi*
- An **IoT** based smart application to monitor and control the plants using various sensors and solenoid valves.
- Developed **Micro-Services** for **Authentication** and **Data Pre-Processing** tasks.

NLP & CV Projects —   *OpenCV, Tensorflow, NLTK*
- Telegram Chatbot to answer Stack Overflow Questions, NER, PoS Tagging, Poetry Generation, Sarcasm Detection etc.
- Face recognition, Emotion Recognizer and Car number plate detector from CCTV footage using OpenCV.

Automation Projects —   *OpenCV, pyautogui, SQLite*
- A **Bot**, to play in game events, which **reduced human effort** from 4 days to 6 hours.
- **Library Attendance Manager**, deployed in the **College Library** to record student entry and exit information. This helped the College in achieving efficiency in the management of student activity data.

Web Projects —   *React, Django, Flask, HTML, CSS, Bootstrap, SQL, PostgreSQL*
- Profile page, DJ Archive (**Project Lead and Collaborator**), College Event Manager, Hackathon Projects, Course Projects.

Smart India Hackathon Project —   *Django, React, Chart.js, Tensorflow, OpenCV*
- Our team achieved **1st position** in intra-college hackathon for building a platform that **enabled** the teachers to engage students in online lectures by providing detailed analysis of the lectures.

Leadership & Activities

DJ Unicode   **Aug. 2018 - Present**
Senior Mentor and Events Head
- **Mentoring** and **guiding** approximately **50** to **60** Sophomores, Juniors and Seniors in various projects
- Initiated **Workshops** on "**Web Development with Django**" and "**Programming with Python**", where I taught **Object Oriented Programming in Python** to Freshmen and Sophomores.
- Mentored 2 teams for a 4 Month and a year-long college project respectively.

E - Yantra Robotics Competition   **Aug. 2018 - Jan. 2019**
Team Leader
- **Led** a team of **4** to the **semi - finals** of the competition.
- We built a **line following robot** with **pick/place** and **colour sensing** mechanism.