Rashmil Panchani

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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 Developer** on the **HMS Challenger Expedition** using **React** and **FastAPI**.
- I worked on **Digitizing**, **Cleaning** and **Structuring** the **Geographical and Biological data** using **Python**.

Phionike Solutions   Mumbai, Maharashtra
Technology and Machine Learning Research Intern   *May 2019 – Jul. 2019*
- Helped pioneer a new **Research and Development** department, for 6 project ventures at that time.
- Performed **risk and requirements analysis** of all the 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*   Nov. 2020 – Jun. 2021
- Built an **IoT** based **Smart Garden React** application to **monitor** and **irrigate** the plants in **real time**.
- Leveraged the power of **Hasura GraphQL Cloud Based Database Engine** to create a fully **scalable** web app.
- Developed **Micro-Services** for **Authentication** and **Data Pre-Processing** tasks.

NLP & CV Projects | *OpenCV, Tensorflow, NLTK*   Nov. 2019 – Jan. 2021
- **Telegram Chatbot** to answer StackOverflow Questions using NER, PoS Tagging and Embedding Ranking algorithms.
- Face recognition, Emotion Recognizer and Car number plate detector from CCTV footage using OpenCV.

Automation Projects | *OpenCV, pyautogui, SQLite*   Jan. 2020 – Nov. 2020
- Developed a **Python Game Bot**, to play all the time consuming events, which **reduced my effort** from **4 days** to **6 hours**.
- **Library Attendance Manager**, deployed in the **College Library** to record student entry and exit information which helped the College in achieving efficiency in the management of student activity data.

Web Projects | *React, Django, Flask, HTML, CSS, Bootstrap, SQL, PostgreSQL*   Jan. 2018 – Jun. 2021
- 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*   Nov. 2018 – Jun. 2020
- 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** mechanisms using Arduino.