## Rashmil Panchani

2179048844 rmp6@illinois.edu LinkedIn: rashmil-panchani Github: Rashmil-1999 rashmil-1999.github.io

Education

University of Illinois at Urbana-Champaign

Masters of Computer Science GPA: 4.00/4.00

University of Mumbai, Dwarkadas J. Sanghvi College of Engineering

Bachelors of Computer Engineering GPA: 3.99/4.00

Technical Skills

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

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

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

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

Experience

## National Center For Supercomputing Applications (NCSA)

Champaign, Illinois

Dec. 2022

Jul. 2021

Graduate Research Assistant - Part-Time

Sept. 2021 - Present

- Building Scalable web backend using FastAPI to to query a Database of 20,000 plus species found in the HMS Report.
- Designed and Created streamlined workflows that Extract, Process, and Store 2000 plus pages of Textual data scanned from HMS Challenger Report using Python.
- Implemented CI-CD Pipelines that builds the source code, containerize it, and ship it to production using Github Actions and Docker in 30 to 40 minutes.

## Department of Computer Science

Champaign, Illinois

Research Assistant

Jan. 2022 - May 2022

- Formulated Algorithms to model data in Python to generate Multi-Dimensional Graphs containing 200,000 nodes.
- Devised an end-to-end system that Visualizes Bibliographic networks and helps the Conference/Journal panelists to infer possible conflicts between paper reviewers. Thus, enabling the panelists to make informed decisions in their allocation.

Phionike Solutions

Mumbai, Maharashtra

Technology and Machine Learning Research Intern

May 2019 - Jul. 2019

- Pioneered a new Research and Development Department at the Startup.
- Established 6 different research projects and laid the groundwork for further development by performing Risk and Requirements analyses.
- Conceptualized and Programmed an Amazon Alexa Skill that can read blogs from numerous websites using AWS Lambda for custom business logic and AWS S3 for storing business metadata in Javascript.

**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.
- Employed Hasura GraphQL Cloud to create a highly scalable and available backend.
- Developed Micro-Services for Authentication and Data Pre-Processing tasks.

NLP & CV Projects | OpenCV, Tensorflow, Pytorch, 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.

Web Projects | React, Django, Flask, HTML, CSS, Bootstrap, SQL, PostgreSQL

Jan. 2018 - Jun. 2021

• Profile page, DJ Archive (**Project Lead**), College Event Manager, Hackathon Projects, Course Projects.

Leadership & Activities

DJ Unicode Aug. 2018 - Jun. 2021

Senior Mentor and Events Head

- Mentored and guided a batch of nearly 50 to 60 Sophomores & Juniors in various projects
- Led numerous project teams in different roles, Conducted Workshops on Web Development in Python using Django, and taught Object-Oriented Programming to nearly 30 40 Freshmen and Sophomores.
- Mentored and managed 3 teams that developed software that was shipped to production and deployed at the college level.

## **E** - Yantra Robotics Competition

Aug. 2018 - Jan. 2019

Team Leader

- Led a team of 4 to the semi finals of the competition.
  - Assembled a line following robot with pick and place mechanism and color sensing capabilities using sensors and Arduino.