

RASHMIL PANCHANI

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Education

University of Illinois at Urbana-Champaign

Masters of Computer Science

Dec. 2022

GPA: 4.00/4.00

University of Mumbai, Dwarkadas J. Sanghvi College of Engineering

Bachelors of Computer Engineering

Jul. 2021

GPA: 3.99/4.00

Technical Skills

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

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

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

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

Experience

Department of Computer Science

Champaign, Illinois

Research Assistant

Jan. 2022 - Present

- Designing and developing multi-dimensional graphs in python to relate people from **Computer Science** backgrounds.
- Using **dblp** database perform analysis on co-authorship networks between professors to determine potential paper reviewers.
- Building scalable web APIs in Node JS to process raw data to create complex graphs consisting of over **300,000** nodes.

National Center For Supercomputing Applications (NCSA)

Champaign, Illinois

Graduate Research Assistant - Part-Time

Sept. 2021 - Present

- Working as a **Full Stack Developer** on the **HMS Challenger Expedition** using **React** and **FastAPI**.
- Implemented **Digitizing, Cleaning and Structuring** algorithms for **Geographical and Biological** data using **Python**.

Phionike Solutions

Mumbai, Maharashtra

Technology and Machine Learning Research Intern

May 2019 - Jul. 2019

- Pioneered 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.

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.