RASHMIL PANCHANI

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Education

University of Illinois at Urbana-Champaign — Dec. 2022
Masters of Computer Science — *GPA: 3.94/4.00*

University of Mumbai, Dwarkadas J. Sanghvi College of Engineering — Jul. 2021
Bachelors of Engineering in Computer Engineering — *GPA: 3.99/4.00*

Technical Skills

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

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

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

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

Certification: AWS Certified Cloud Practitioner

Experience

National Center For Supercomputing Applications (NCSA) — Champaign, Illinois
Research Programmer — *Aug. 2022 - present*
- Developing full-stack applications on the INCORE project with a team of *8* research programmers.
- Design & Build *3* crucial components of the project, pyincore Python package, Java Microservices, and React front-end.

National Center For Supercomputing Applications (NCSA) — Champaign, Illinois
Research Programmer — *Aug. 2021 - Aug. 2022*
- Created scalable web backend using FastAPI to query a Database of 20,000 plus species found in the HMS Report.
- Designed and Engineered streamlined workflows that Extract, Process, and Store 2000 plus pages of Textual data scanned from HMS Challenger Report using Python.
- Implemented CI-CD Pipelines using Github Actions that reduces deployment time by approximately a factor of 3.

Phionike Solutions — Mumbai, Maharashtra
Technology and Machine Learning Intern — *May 2019 - Sept. 2019*
- Launched and charted a new Research and Development Department at the startup to develop innovative projects.
- Established 6 research and development projects by performing Risk and Requirements analyses.
- Conceptualized, created, and published an Amazon Alexa Skill that can read blogs using AWS Lambda and AWS S3.

Projects

Smart Garden | *React, Hasura, GraphQL, Arduino, RaspberryPi, IoT* — Nov. 2020 - Jun. 2021
- Built a Smart Garden that can monitor and irrigate up to 64 plants in real time for people with busy schedules.
- Leveraged Hasura GraphQL Cloud to create a backend that can handle 1 million active queries per second.
- Developed 3 Micro-Services for Authentication, Data Pre-Processing, and Leaf Disease Detection tasks.

Telegram Chatbot | *Tensorflow, NLTK, Scikit-learn, Pandas, Numpy, AWS EC2* — Nov. 2019 - Jan. 2021
- Designed a Chatbot to answer Stack Overflow Questions with an accuracy of 95.4%
- Trained Intent and Language classifiers with the help of StarSpace Neural Model to learn language tag embeddings.
- Deployed Chat Bot service on AWS EC2 instances. Thus, reducing response time by a factor of 4.

Leadership & Activities

DJ Unicode — Aug. 2018 - Jun. 2021
Senior Mentor and Events Head
- Mentored and guided a batch of around 50 to 60 Sophomores & Juniors in numerous college level projects.
- *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.
- *Constructed* a *line following robot* with *pick and place* mechanism and *color sensing* capabilities using *sensors and Arduino.*