Sukesh Seth

ML & DevOps Enthusiast

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Education

B. Tech. Electronics & Communications Engineering with splzn. in Instrumentation Engineering, June 2018 - May 2022
SRM Institute of Science & Technology

Experience

1. Software Development Intern

Linux World Informatics Pvt. Ltd., September 2020 – Present

- During my tenure as an intern, I worked in a team on lots of different technologies like **Cloud**, **Big-Data**, **Containers** and **DevOps**. I worked on many projects involving the **AWS Cloud**, **Ansible**, **Kubernetes**, **Docker** that solves many use cases which one may encounter in industry.
- I had leveraged container technology to deploy **Apache Web Servers** & **Database Servers**, **Ansible** to automate the deployment process & **Kubernetes** to manage the deployment.
- The main project that I did was creating an **automation software** for launching **Hadoop Cluster**, setting-up **EC2 Instances** on AWS Cloud, deploying web apps on **containers** as well as in the **cloud**, configuring **Kubernetes Cluster** and this software also had **voice control** and **text - to - speech** capabilities.

2. Technical Content Writer

Medium.com, October 2020 – Present

I publish blogs on Medium related to **Big-Data**, **Cloud**, **DevOps** & **Machine Learning**. My blogs are related to **configuration**, **management** & **deployment** as well as some projects & research that I've done personally. Check it out on Medium @sukeshseth.

3. Flight Systems Engineer

Student Copter Research Organization, June 2019 – Present

- SCRO is a student-led team which deals with research in **Aerial Robotics field**.
- As a Flight System Engineer, my job is to ensure that a robust **control & power system** is being used in the UAV.
- I've worked on various **research projects** related to **drones**, presented one **research paper** in SRM Research Day 2019.
- During my tenure, I've built one **autonomous drone** using **PixHawk** and **Arduino,** a **self-balancing robot** and a tool for **drone identification** using **TensorFlow CNN**.

Projects

1. CoviDapp (SmartPy, Tezos Blockchain, TzKt API, ReactJS, hosted on Vercel)

- A **Blockchain** based web application that helps solve the problem of **corruptionless distribution of Covid vaccines**.
- The app uses **ReactJS** for client-side rendering, smart contracts were written using **SmartPy**. All the transactions in the chain are openly accessible to the taxpayers, thus ensuring corruption-less vaccine distribution.
- This project secured **3rd position** in the **Python Week Hackathon** among **60+** submissions & **115+** participants.

2. Aapka Apna Doctor (RASA NLP Framework, Web Scraping, Telegram Bot, hosted on Heroku)

- A **Telegram Bot** that is made for answering general medical queries.
- It is developed using **RASA** Framework for **Natural Language Processing**.
- The bot is trained on **130 diseases** & queries related to them were scraped from **WebMD's website**.

3. Envision (OpenCV, Flask, Node.JS, MongoDB, hosted on Heroku)

- A responsive web application to solve the problem of **lost votes** that India is currently facing.
- This web application is developed using **Flask**, **Node.JS** and **MongoDB**.
- This application is secure since it stores all the personal details in **Hash-and-Salt** format as well uses **OpenCV face recognition** for voter authentication. Voters can use their Voter-ID and Aadhaar Card for registration in the portal.

Skills

- **Languages:** C++, Python, C, Assembly
- **Technologies:** AWS Cloud, Ansible, Kubernetes, Docker containerization, Distributed Storage, RedHat Enterprise Linux, Machine Learning, Robotics Operating System, Arduino
- **Frameworks:** TensorFlow, Flask, Sckit-learn, Apache Hadoop, RASA, Kaldi, OpenCV
- **Databases:** SQL, MongoDB
- **Familiar with:** Java, React, Git, MATLAB, Octave, SciLab

Achievements

- **2nd position in SRM Research Day 2019 within Aerospace Department for presenting a paper.**
  - I presented a paper on Early Prediction of Landslide using UAVs.
  - This paper involved a brief description about how the landslide can be predicted early using **Machine Learning**, **multispectral sensor** & **UAVs**.

- **Top 10 in SRM Hackathon '18 among 500+ teams.**
  - My team built a novel **IoT – based solution** for Accident Detection which was developed using **Arduino** & deployed on **Firebase**.
  - We used **NodeMCU** for wireless communication and Arduino for Accident Detection.

- **3rd Prize in HackCBS 3.0 among 260+ colleges and 2000+ registrations.**
  - My team made a rap generation website, Aapka Apna HipHop & deployed it on **AWS EC2 Instance**.
  - We used **Flask** for backend and a **LSTM model** for developing the rap generator.

- **3rd Prize and Tezos track winner in Python Week Hackathon.**
  - My team developed a **Blockchain** based web application for **corruptionless Covid Vaccine Distribution**.
  - I used **SmartPy** to develop smart contracts for the transactions.

- Secured **212** rank among **25,000** contestants in **January 2020 Long Challenge on CodeChef**. My current rating is **1624**.