SHASHANK REDDY BOYAPALLY

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TECHNICAL SKILLS

Technologies and Tools: Docker, Kubernetes, Microsoft Azure, AWS, RedHat Linux, Terraform, Jenkins, Git and GitHub, Bamboo, Postman, Octopus, OpenShift, REST APIs, JIRA, Confluence, CI/CD, bash, ReactJS, React Native, ExpressJS, MongoDB, PostgresDB, MySQL, Firebase, Django, Computer Vision, Image Processing, Machine Learning, Neural Networks.
Languages: C, C++, J2SE (Java Standard Edition), Python, Erlang, JavaScript, HTML and CSS.

WORK EXPERIENCE & INTERNSHIPS

- *Software Engineering Intern*, **Honeywell Technological Solutions (Aero Division),** Hyderabad.   **Mar '22 – May '22**
  - Migrated the Business Management System - manages the Billing and subscription service operated by AMRs from Internet Explorer to Chromium based browsers.
  - Used struts framework along with JSP. Saved up to **165 hours** per month of manual work done by AMRs. **Boosted efficiency**. **Takeaway:** Gained knowledge how legacy applications work and maintained.

- *Software Engineering Intern (DevOps)*, **Honeywell Connected Enterprises,** Bangalore.   **Apr '21 – Jun '21**
  - Developed an automated testing environment using Octopus and Protractor in an Agile environment, deployed the application using Bamboo and Jenkins, tested APIs using Postman, deployed in RedHat Linux server environment**, conserving time for the task from 60 to 5 mins**. **Boosted efficiency up to 80%.**
  - Leveraged React in the Front-end and Django for backend along with usage of Microsoft Azure PostgresDB and Storage, then built the docker image and deployed it as a container.
    Takeaway: Grasped hands-on projects and industry standards, also looked upon scalability with help of Kubernetes. Learnt various web technologies – React, Django, Bamboo and DevOps tools like OpenShift.

- *Data Analytics Virtual Intern*, **KPMG International,** WFH.   **Apr '20 – May '20**
  - Analysed quality of the dataset provided by a medium-sized bike accessories company, Sprocket Central.
  - Assessed dataset, performed data transformations, feature engineering, and modelling using various tools like Tableau and Power BI. It led to **discovery of 40% more potential customers** based on demographics and transaction history.
    Takeaway: Worked on data from real world, realized the potential hurdles one might face using the real-world data, and steps to overcome those hurdles in data analysis.

PROJECTS

- **Web Application (Pedestrian Crossing) Deployment using Ansible**   **Jan '22 – Mar '22**
  Objective: Developed an Ansible Script to connect with multiple servers across the defined network and automated the process of Web Application Deployment on the servers. The infrastructure of the servers is built with help of Terraform Scripts for the AWS Cloud Services. The complete process is automated with Jenkins to perform CI/CD when new server is added to the network.
  Role: Front-end Web Dev, Computer Vision and DevOps Engineer.
  Tools used: Ansible, Terraform, AWS CLI, Jenkins, Git and GitHub.
- **COVID-19 Help Desk**   **Mar '21 – May '21**
  Objective: Provide information about the availability of beds and various medications available in each hospital for citizens, along with filters based on location of user during the severe second wave of COVID-19. Deployed the Web App backend in AWS Lambda service. Co-ordinated and led the team.
  Role: Team Lead, Full Stack Web Developer, and Mobile Application Developer, DevOps.
  Tools used: ReactJS, Material UI and other various libraries, AWS Lambda, React Native for Mobile Application Development.
- **Object Detection Using YOLO-v3**   **Dec '20 – Jan '21**
  Objective: Develop a computer vision program that can detect basic objects in frame of the camera, and announce objects in vision, to help visually impaired people. Communicated with visually impaired and professors for better understanding of approach.
  Role: Machine Learning and Computer Vision Developer.
  Tools used: TensorFlow, OpenCV, Darknet-53, YOLOv3, Python.

EDUCATION and ACADEMIC QUALIFICATIONS

University of Florida, Gainesville, Florida.   **Aug '22 – Present**
Master of Science, Computer Science.

Jawaharlal Nehru Technological University College of Engineering Hyderabad, Hyderabad, India.   **Aug '18 – Jun '22**
Bachelor of Technology, Computer Science & Engineering, **CGPA**: **8.58/10 or 3.9/4** (according to WES evaluation).

PUBLICATIONS and PRESENTATIONS

- **Published a research article** *Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumor Detection* in High Technology Papers, Volume 9, Issue 27. (Sep '21, ISSN: 1006-6748)
- **Attained second position** in paper presentation on *Facial Recognition and Attendance System Using dlib and Face Recognition Libraries* in a state-level conference conducted by Computer Society of India, since 1965. (Dec '20).

CERTIFICATES

- AWS Cloud Practitioner, Jan '22.
- Google Cloud Program, Dec '20.