

Dharanidhar Reddy Yerram

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Skills

- Python | Java | JavaScript | NoSQL | SQL | Bash | MySQL | Go | jQuery | Git | R | Firebase | SWIFT
- GCP | AWS | CI/CD | Kubernetes | Docker | JIRA | NSX-T | ESXi | V-Sphere | OOP | Django | Flask | Spring Boot | ML | DL
- Image Processing | OpenCV | Microservices | Distributed Systems | Cloud Computing | Frontend | Backend | Full-Stack

Experience

Full Stack Developer, Intern

ADPMN

Georgia, USA 05/2023 - Present

- Developed the Order microservice for the VAOFD using **Spring Boot**, facilitating the processing of orders within the platform.
- Contributed to the frontend integration of the VAOFD platform using **Next.js**
- Designed and implemented a robust **CI/CD** pipeline using Google Cloud Build and Google Cloud Deployment Manager for the VAOFD project, ensuring seamless integration and deployment of new features.
- Integrated multiple microservices deployed on Google Cloud and provided secure access to **Google Secret Manager** within the Platform.

Member of Technical Staff - 2

VMware

Pune, India 07/2022 - 07/2023

- Led the design and development of Data-Migration Fault injection initiative to resolve issues of NSX-T upgrade by 30%.
- Developed a framework in **Python** for **NSX-T CI/CD** pipeline to capture and report real-time data migration issues could happen in NSX-T upgrade and also provided dashboards leveraging **Angular** for management to get a better visualization.
- Led the design and development of a fault injection **Python** framework deploying chaos-mesh in **kubernetes** cluster helped in performing fault resiliency check of **NSX-T** on **SaaS** and many apps on **Microservices**.
- Enhanced the Test Framework and Smart tools leveraging **Python, Java, Jenkins**, and **Spring Boot** increasing the productivity of the team
- Continuous Integration/Deployment Pipeline Integration, pull requests, code reviews, unit/integration/e2e testing

Member of Technical Staff - 1

VMware

Pune, India 07/2020 - 07/2022

- Developed API-tizer, a smart generic plugin using **Python** that runs as a daemon and computes all the API intent and Realization performance of the appliance and pushes it to an observability tool called **WaveFront**
- Enhanced framework and development of a fault injection **Python** package Mjolnir 2.0. Mjolnir was accepted as a VMware fling.
- Engineering lead for designing and developing a visualization tool called API-coverage that captures all the APIs covered in CI/CD pipeline jobs and analyze the API usage and coverage with a Dashboard using **Angular** and **Flask**.
- Developed Corfu-universe **Java** Framework for simulating **Corfu-DB** testing in **NSX-T** QE framework, ensuring high-performance and seamless adoption.

Software Engineer, RnD Intern

VMware

Bangalore, India 01/2020 - 07/2020

- **Mitosis**: Conducted a comprehensive proof of concept and efficiency analysis for the Transparent Self-Replicating Page-Tables concept within the VMkernel of ESXi. Acquired skills - Linux, ESXi VMkernel, Operating systems, Shell scripting, Python, Memory benchmarking.

Education

Master of Science

University of Southern California

Los Angeles, CA, USA 08/2023 - Present

- Major in Computer Science

(Analysis of Algorithms, DBMS, Web Technologies)

Bachelor of Science

Amrita Vishwa Vidyapeetham

Bangalore, KA, India 07/2016 - 08/2020

- Major in Computer Science and Engineering

(OOPS, Data Structures, Networking, OS, NLP, Deep Learning, Computer Vision, Cloud Computing)

Projects

- **StockSearch**: Developed a **Swift IOS** app and a website using **Angular** to simulate a trading based on the current market. (05/2024)
- **SceneTrace**: Created a **Python** app to search the exact video frame for a given noised video segment within a video database. (04/2024)
- **Electoral Roll Data Parser**: Developed Voter data extraction from Electoral Roll images using **OpenCV** and **Tesseract**. (10/2023)

Mentorship

- **VMware Bootcamp Mentor** : Responsible for mentoring on projects and giving coding advices to new grads and interns in the company.
- **Joint Secretary of ACROM**: Key Speaker and mentor in Robotics Basic Workshop and Seminars conducted by ACROM. [2017-2020]

Others

- **At Our Best Award**: Won consecutively 3 VMware AOB awards in VMware NSBU for my exceptional performance. [2021,2022,2023]
- **Best Code Practice Award**: Won it as a recognition for my coding practices in developing a production scale product. (07/2020)
- **Nullcon Hackim Finalist**: Was part of the top 3% of Indian teams at Nullcon Hackim, an International CTF event. (02/2019)