Rohith ND

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EXPERIENCE

Cloud Engineer Intern   Dec 2022 – Jan 2023
Hotnot Pvt Ltd
- Designed, implemented and maintained cloud infrastructure for the project using Azure
- Developed and deployed cloud-native applications using services such VM, PostgreSQL, Blob
- Setting up nginx, gunicorn, system service and certbot in azure VM

Full Stack Developer   Feb 2022 – May 2022
Freelance - Hospital management information system (HMIS)
- Flutter and ReactJS were used to develop the application's user interface and create an efficient reusable components.
- Implemented the consumption of RestAPI in the web user interface using the axios library and in the mobile user interface using the dio package.
- Implemented server-side functionality using DjangoRestFramework and created documentation for the application.

Full Stack Developer   Oct 2021 – Jan 2022
Freelance - Maid Services Application
- Created reusable components and implemented the application's user interface using Flutter and ReactJS.
- Developed server-side logics using DjangoRestFramework and consumed the endpoints in frontend.
- Performed comprehensive testing utilizing Cypress for a React JS application.
- Maintained regular communication with clients throughout the development process to ensure that their needs and requirements were met

Open Source Developer   Mar 2022 - Apr 2022
Freelance - Sketch Icons
- Optimized icons for web use by utilizing SVGO and Fantasticon, and implemented them in web fonts.
- Created a web-based application for easy access and documentation of icons.
- Implemented continuous delivery using GH Actions to build and publish the package upon new a release.

EDUCATION

Amrita Vishwa Vidyapeetham   Chennai, India
Bachelor of Technology in Computer Science and Engineering   *Aug. 2020 – Present*
CGPA : 8.74/10

Swamy's School   Chennai, India
High School   *June. 2018 – March 2020*
Percentage : 89%

PROJECTS

Devcraftsman | *Oracle Cloud, Kubernetes, ReactJS, FastAPI, MySQL*   Dec 2022
- Infrastructure was created in Oracle Cloud using Terraform.
- A development-to-production pipeline setup was established in Oracle DevOps. The setup included Dockerization and deployment of the application in a Kubernetes cluster.
- Implemented frontend of application using ReactJS and consumed the API endpoints.

Drug Adverse Predictor | *FastAPI, ReactJS, Flutter, AWS, Docker, Digital Ocean*   Nov 2022
- Developed a full-stack hybrid application using with FastAPI serving a REST API with React and Flutter as the frontend
- Utilized AWS medical comprehend and textract to extract textual data from document and Machine Learning model to predict drug adverse reactions
- Used Docker to package the application and utilized Slim.ai to optimize its size.
- Deployed both the server-side and client-side applications on DigitalOcean.

Upahith | *Nvidia Gaugan, FastAPI, Pytorch, ReactJS, Hugging Face* — Aug 2022
- Developed a web application utilizing deep learning techniques to assist dyslexic children in enhancing their abilities.
- A model was developed using the DistilBert base uncased model and the Flickr30k dataset, which is capable of generating images from text.
- Acquired knowledge and skill in utilizing Pytorch and Hugging Face library to create various machine learning models.

MLOPS | *CNN, FastAPI, Pytorch, ReactJS, Jenkins* — July 2022
- Created a number of convolutional neural network models for identifying objects within images using the Pytorch.
- Created a full-featured application utilizing the Fastapi framework for the backend and React JS for the frontend.
- Implemented MLOPS principles and practices, including continuous integration, delivery, and deployment of machine learning models using tools such as Jenkins, Docker.

Kala Kendra | *ReactJS, NodeJS, FastAPI, Hugging Face* — June 2022
- Developed a model for text-image generation utilizing VQGAN and Clip Transformers, and used Deoldify to restore colors for images and videos.
- A LSTM-based model was trained using the Flickr dataset to generate captions for images.
- Served the application.

Turtle Text | *ReactJS, NodeJS, FastAPI, Hugging Face* — June 2022
- Developed a project utilizing GPT-2 and DistilBERT models for natural language processing, which involved elaborating text with GPT-2 and summarizing videos or blogs with DistilBERT.
- Created a web application with a React JS frontend and a FastAPI backend.
- Built a chrome extension and web app that enables users to perform all actions.

TECHNICAL SKILLS

Full Stack: React JS, Flutter, Django, NodeJS, FastAPI, RestAPI, SQL, NoSQL, JavaScript
Machine Learning: PyTorch, Tensorflow, Hugging Face, Sklearn
Cloud: Docker, Devops, Jenkins, Kubernetes, AWS, Azure, Oracle Cloud, DigitalOcean
Others: Linux, Postman, Figma, Cpanel, Arduino, Python, Java, Git, Blogging

PUBLICATIONS

Manikandan A, Rohith ND, et. al. "Prediction of Covid-19 With Supervised Regression Algorithm Through Minimum Variance Unbiased Estimator", International Journal of Current Research and Review, vol. 13, no. 11, pp. s55-s62, 2021.

ACHIEVEMENTS

- Secured 1st place in SLIM AI Devops hackathon with a cash prize of $3000 USD.
- Winners of Oracle Microservices Application Category in DeveloperWeek'23 Hackathon.
- President of Coding Club in Amrita Vishwa Vidyapeetam , Chennai.
- Secured 3rd place in PSG ITechHackfest'22 organised by SAP Laboratories and Kaar Technologies.
- Runners of Caterpillar's Code-A-Thon 2022.
- Winner of MLH Hacking Heist 2022 , MLH Waffle Hacks 2022 , MLH YeeHaw Hacks 2022 ,MLH Deep Dive Hacks, MLH Thehacktrical 2.
- Runner of BioMedicathon 2021 organised by SSN institution , Chennai.
- Mentored students in the ToyCathon'21 organised by MHRD of India, resulting in a grand prize win for the team.
- Participated in Hacktoberfest 2022 as an open source contributor, submitting pull requests and contributing to various projects on GitHub.
- Winner of Phobos'21 an IntraUniversity competition organised by Amrita Vishwa Vidyapeetham.
- Open Source contributor to various organisations such as Hugging Face Transformers, tldr-pages, Microsoft, Supabase, Modernizr
- Winner of SRM TechFest'19 for school students.
- Winner of Technocrats 2017 organised by Technocrats Robotics club,India.
- Participated in various hackathons organised by AWS, Snapchat and other organisations.

LICENSES & CERTIFICATIONS

- Postman Student Expert Certification.
- A Beginner's Guide to Linux Kernel Development Certification.