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

EDUCATION

Amrita Vishwa Vidyapeetham   Chennai, India
Bachelor of Technology in Computer Science and Engineering   *Aug. 2020 – Present*
CGPA : 8.67/10

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

PROJECTS

Education ERP | *Django, ReactJS, RestAPI, MongoDB*   Dec 2022
- Developed the idea and design for a comprehensive Education ERP system using NoSQL database structure.
- Created a full-stack web application using DjangoRestFramework for the backend and React JS for the frontend, with REST API integration.
- Wrote documentation for the entire application to provide a user manual for the organisation.

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.

Sketch Icons (Open Source Package) | *Javascript, NodeJS, GH Actions, Git*   Mar 2022
- 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.

TECHNICAL SKILLS

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

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