Rakesh N Kundar

Software Development Engineer

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ABOUT ME

Software Development Engineer having professional experience of over 1.6+ years in analysis, design, development and implementation of complex business applications. Disciplined, tenacious, self-motivated, and creative IT engineer with strong programming skills, and a deep interest in new IT developments. Interested in finding solutions for intractable problems. Have a keen interest in acquiring practical exposure which helps me to contribute to the success of my work. Always focus on giving my best on each task I take up and aim to provide an elegant and efficient solution. Enjoys new experiences and challenges.

EXPERIENCE

Quantiphi

Software Development Engineer

February 2021 – Present Bengaluru, KA, India

- Understood key points of insurance domain and coped up quickly with a fast-paced environment to be actively involved in development.
- Developed SHEET LOGIC feature solely from scratch which is one of the core functionality of the business requirement.
- Worked on code configuration which simplified the code management and deployment process across different environments.
- Implemented logger framework using Observer design pattern and implemented reusable APIs for frontend and AWS Lambda functions to log several necessary details to AWS RDS.
- Integrated Testing framework to the code base to efficiently write unit and integration test cases.
- Worked on replacing the traditional username/password authentication with SAML based PING Authentication on the UI.
- Contributed in **MERGE** and **REALTIME** features to retain historical data and to move the data from batch to realtime process respectively.
- Refactored the codebase to reduce the API response time and efficiently develop new features.
- Improved the database performance by optimizing the queries and adding indexes to tables.

PROJECTS

Content Based Medical Image Retrieval Using Deep Learning | Python, Google Colab, Tensorflow, Keras, Numpy

- Primary Goal: To provide an efficient search mechanism on the image dataset based on input image.
- **Solution**: Collected images of different parts of human body from various sources. Built a Keras model and trained with training and validation dataset. Tested the model output with test dataset. Improved model performance by adding variations in the training dataset and varying optimizers.
- **Result :** This solution has shown 90% accuracy on image classification and retrieval. This helps medical experts to understand the category of disease and its severity.

Neural Network for Image and Video Compression | Python, Google Colab, Tensorflow, Keras, Numpy

- Primary Goal: To efficiently transmit the multimedia data over network using deep neural network.
- **Solution**: Developed Downscaling and Upscaling Neural Networks using Keras framework which efficiently compress the original multimedia data frames at source end and decompress at the receiver end using multiple steps. This reduces the amount of data sent over the network minimizing the traffic.
- **Result :** Data sent over the network is reduced by 50% and the reconstructed data at the receiver end had similar PSNR value as that of tradition approach.

Jenkins Pipeline for Deploying Django Microservice | Python, Django, Jenkins, Docker, Github, PostgreSql

- Primary Goal: To automate the deployment of Django Microservice to the virtual machine on cloud.
- **Solution**: Learnt and built a pipeline using Jenkins by integrating Github, writing Jobs to perform testing on the Github code. Deploying the successfully validated code to the server via Jenkins pipeline.
- **Result :** Solution had simplified the deployment process and completely removed the dependency on manual deployment. This resulted into quicker deployments and are error resistant.

SKILLS

- Programming Languages: Python, C/C++, Java, JavaScript
- Frameworks : Django, Pandas, Jupyter
- Databases : MSSQL, MySQL, PostgreSQL, MongoDB, Amazon RDS
- DevOps: Git, GitHub, Docker, Jenkins, AWS CloudFormation, AWS Codecommit
- · Cloud: AWS, GCP
- Operating System : Microsoft Windows, Linux(CentOS, Ubuntu)
- Tools and IDEs: Visual Studio Code, S3, Lambda, Sagemaker, CloudWatch, Eclipse, Postman, DB Visualizer

EDUCATION

Manipal Institute of Technology, Manipal, Karnataka, India *B-Tech in Computer Science and Engineering.*

Aug. 2017 – May 2021 8.84 CGPA

CERTIFICATIONS

- AWS: AWS Certified Solution Architect Associate (05/2021 06/2024)
- Udemy: Jenkins, From Zero To Hero: Become a DevOps Jenkins
- Udemy: Google Certified Associate Cloud Engineer Certification

ACHIEVEMENTS

- Awards Kingsman and Innovator for remarkable contribution to the organization.
- **Trainer and Assessor** Trained and assessed multiple freshers onboarding to the project and guided them to the right path with constant support.
- Interests Event Management, Cricket, Travelling.