

Abdul Wakeel

PRINCIPAL SOFTWARE ENGINEER

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“Be the change that you want to see in the world.”

Summary

JAVA Backend Engineer at EmbraceIT with 5+ years experience in backend development, test automation and CI/CD processes. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Skills

DevOps	Docker, Git, Github Actions, Gitlab Pipelines
Operating Sys	Linux, Windows
Back-end	Flask, Django, REST API, Cli Based Apps
Databases/Data Stores	PostgreSQL, MySQL, SQLite, Redis, KAFKA, RabbitMQ
Programming	Python, JAVA, JavaScript, SQL, Bash, CMake
Languages	English, Urdu, Pashto

Work Experience

EmbraceIT

Islamabad, Pakistan

SENIOR SOFTWARE ENGINEER

Oct. 2021 - Present

- Currently working as JAVA backend developer with HelloRetail
- Developed and maintaining a sub-product Pages by HelloRetail
- Developed and maintaining a sub-product Analytics by HelloRetail

3G TECHNOLOGIES (GUARANTEE) LIMITED

Islamabad, Pakistan

LEAD BACKEND ENGINEER

Apr. 2021 - Oct. 2021

- Lead a backend team of 5 people towards a successful project initiation
- Participated in the design of a legacy system used by Qualcomm ESG group using modern tools such as python, mysql and linux
- Planned and designed system with QC ESG team to support backward compatibility with the existing database
- Supported team by maintaining direct communication with ESG
- Designed a pattern for ESG Data Analysis project resulting in minimizing the manual operating procedure by 90%

3G TECHNOLOGIES (GUARANTEE) LIMITED

Islamabad, Pakistan

SENIOR SOFTWARE ENGINEER

Mar. 2018 - Apr. 2021

- Lead the development of DIRBS Core (previously driven by Qualcomm), a data analytics system to identify counterfeit devices over the network
- Designed & managed highly-available Flask based (Python) REST-ful APIs to support OLTP queries to the DIRBS System
- Designed and developed docker based CI/CD solutions for easy deployment of the software, resulting in reduction of manual deployment process by 90%
- Designed and developed automated scripts for day to day operations of DIRBS to minimize manual processing of data by Ops team
- Introduced redis based in-memory cache to minimize the load on the API server by upto 50%
- Designed and developed real time process monitoring mechanism to continuously monitor queries and process over the time for performance using StatsD, Python Profiler
- Tweaked various existing functionality in the system to make it more space and time efficient
- Provided real time support to the system deployment at Pakistan Telecommunication Authority (PTA)
- Took part in the decision making group related to DIRBS system in the organization
- Conducted several training's and workshops related to the system in-side and out of the country

Experts Vision Engineering and Technology Innovations (Pvt.) Ltd.

Islamabad, Pakistan

PYTHON DEVELOPER

Dec. 2017 - Mar. 2018

- Designed and developed a system to rank amazon products by identifying real or fake review
- Designed a 3NF database for the system using PostgreSQL to ensure smooth and efficient processing of the data
- Designed and developed an internal IP proxy (rotation system) to minimize IP blocking by 70%
- Designed & managed highly-available Flask based (Python) REST-ful APIs to support OLTP queries to the system

Wanclouds Inc.

Islamabad, Pakistan

SOFTWARE ENGINEER

Aug. 2016 - Jul. 2017

- Assisted in design and development of system to analyze virtual machine memory state in real time by utilizing Volatility and KVM hypervisor
- Developed interface to submit and retrieve real time vm memory data to Virus Total using Apache Kafka
- Worked as software engineer in development of Shepherd, a tool to ensure the different security aspect of containers and VMs
- Participated in end-to-end testing of the products.

Training's & Workshops

Kementerian Perindustrian, Ministry of Industry

Jakarta, Indonesia

TRAINER FOR <DIRBS CORE DEVELOPMENT & UNDERSTANDING>

Sep. 2019

- Introduced the working of DIRBS and its underlying concepts.
- Introduced how the DIRBS system will work in the country and what will be its impact.
- Helped in understanding the underlying source code and its development and maintenance.

Education

COMSATS University

Islamabad, Pakistan

B.S. IN COMPUTER SCIENCE

Sep. 2013 - Aug. 2017