Mohammed Abdel Raouf

SOFTWARE ENGINEER

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"Call me Raouf."

Summary

Raouf is a Software Engineer with 7 years of experience in designing, developing, and maintaining software solutions that bring development and operations teams together for faster, more efficient development cycles. His expertise spans Backend Development, DevOps, and Automation, with a focus on delivering high-quality software using a DevOps mindset. A self-motivated professional, Raouf is always eager to learn and expand his skill set. DevOps principles and Automation play a central role in his workflow, allowing him to deliver excellent software in a timely manner. He leverages the power of continuous integration (CI), continuous delivery (CD), and thin vertical slices to streamline the development process. Raouf has hands-on experience with **Infrastructure as Code (IaC)** tools like Terraform and Ansible, enabling consistent and automated provisioning of cloud infrastructure. He also has significant expertise with **AWS** services, including EC2, S3, RDS, ECS, Lambda, and CloudWatch, to build and manage scalable, resilient, and cost-effective systems. In addition to his professional responsibilities, Raouf has demonstrated his passion for technology by undertaking various side projects using a variety of technologies. These projects have allowed him to deepen his knowledge, explore IaC best practices, and stay up-to-date with the latest trends in software engineering and DevOps practices. Raouf's commitment to bridging the gap between development and operations, combined with his expertise in automation, cloud computing, and modern software practices, makes him a valuable asset to any organization.

Skills

Programming	PHP, NodeJS, Ruby
Databases	Postgres, MySQL, MariaDB, SQL Lite
Scripting	Bash, PHP
Cloud Computing	AWS, AWS ECS, AWS LB, AWS RDS, AWS EC2, AWS Networking
Infrastructure & Monitoring	Terraform, Jenkins, CircleCI, DataDog, Grafana, Grafana Loki, Grafana Alloy, OpenTelemtry
Containerization	Docker, Kubernetes
Frameworks	RubyonRails, Laravel, WordPress, SlimFramework, ReactNative, ExpressJS

Experience

DailyMealz
Cairo, Egypt

FULL STACK SOFTWARE ENGINEER (BACKEND HEAVY)
2021 - Present

DailyMealz is a product company provide food delivery based on subscription model and operate in KSA. Raouf is a key member of Dailymealz development team during his time he was able to enhance the workflow by create automated scripts to create development/testing servers which was done manually before that, migrating source control from provider to another using automated scripts, dockerize most of the systems to unify the development environment across all development team for better software quality.

- Created Jenkins server to run test suites across all the organization repos.
- Enhanced test suite time from 8 minutes to only 3 minutes which resulting of 62.5% faster creating plugin to run all test suites in parallel which want's supported by the framework version out of the box.
- Led the creation of tracking system used by the company drivers to identify the routes they took, and create a report to enhance the delivery experience.
- Led the creation of automated stress testing using k6 to identify system bottlenecks and ensure performance under high user loads.

Shapa Inc
United State (Remote)

FULL STACK SOFTWARE ENGINEER (BACKEND HEAVY)   *2021 - 2024*

Shapa Inc. builds digital tools to change behavior and health, out of a deep understanding of human nature and technology. Raouf is a key member of Shapa Inc. development team during his time he was able to enhance the workflow separating concerns for each application type and user data and managing them seamlessly.

- Led the creation of a shipping management system when orders are created it consumes user data generates the labels needed for Shipping and gets them ready for printing by the end of the day grouped based on configuration (one or many States).
- Manging Backend APIs for both admin reports/dashboards and 4 different mobile applications.
- Generated reports for the admin dashboard to show client data for clinicians to make better decisions for their clients.
- Working on a react-native source could serve as the base for 4 different mobile applications.
- Created a homepage using WordPress, including custom themes to match branding and functionality requirements.
- Optimized WordPress site performance by configuring caching, image optimization, and reducing load times.

DevSquads
Cairo, Egypt

FULL STACK SOFTWARE ENGINEER (BACKEND HEAVY)   *2019 - 2021*

DevSquads is a software house focused on deliver high quality software by following agile methodologies and extreme programming rules I was a member of a self-organized team who helps his team members on daily basis through agile methodologies and coding practices. Test-driven development, Refactoring, Code smells and Design patterns are all in Raouf's tool box, He uses them to write good quality and clean code.

- Optimized admin dashboard reports build on Rails & Postgres by simplify/optimize SQL queries which which reduce render significantly.
- Dockerize Rails application and provided Makefile with it to make the development environment more welcoming/faster to new team members.
- Created CI using CIrcleCI to run tests suites to avoid merging PRs that having failing tests.

FikrLabs
Cairo, Egypt

FULL STACK DEVELOPER (BACKEND HEAVY)   *2018 - 2019*

Fikrlabs is a software house focused on deliver high quality software by following agile methodologies and extreme programming rules I was a member of a self-organized team who helps his team members on daily basis through agile methodologies and coding practices. Test-driven development, Refactoring, Code smells and Design patterns are all in Raouf's tool box, He uses them to write good quality and clean code.

- Covered legacy code project with automation test using selenium in order to make a safety net to add and Implement new feature.
- Created dev environments for dev team to replicate production environment.

Certificates

2019	**Certified ScrumMaster® (CSM®)**, Scrum Alliance®
2019	**Agile Product Ownership (ICP-APO))**, ICAgile
2017	**Data Science Specialization**, Coursera
2015	**Linux LPIC Level 1**, LinuxAcademy

Contributions

SEMVER

SEMANTIC VERSIONING HELPER LIBRARY FOR PHP   *2024*

- Add ability to compare based on semantic types.

LIGHTHOUSE

A PHP FRAMEWORK FOR SERVING GRAPHQL FROM LARAVEL   *2021*

- Implemented connect and disconnect operations in nested mutations for HasMany and MorphMany relations.

WIX INCUBATOR

DETOX RECORDER IS A UTILITY FOR RECORDINGS STEPS FOR A DETOX TEST AS YOU USE YOUR APP IN SIMULATOR.   *2020*

- Fixed postinstall script on to run on macOS machines only to prevent breaking Linux based CI.

INSTRUCTURE, INC.

THE OPEN LMS BY INSTRUCTURE, INC.   *2020*

- Implemented a solution where using .env as single source of truth for the entire app configs.

LinuxMint

Cinnamon Spices Applets   *2017*

• Fixed startVmplayerImage applets Function: not starting VMs with spaces in its name.

Extracurricular Activity

Ruby SDK for ShipEngine

Ruby on Rails Gem   *2023*

Gem expose all ShipEngine APIs offering low-level access as well as convenience methods.

Laravel-Paratest

Laravel 6 Package   *2021*

Package made specially for Laravel 6 ships with some helper Artisan commands and testing traits to allow you running your Feature Tests in parallel using Paratest against a MySQL or PostgreSQL database without conflicts.

Education

Future Academy   *Cairo, Egypt*

B.S. in Computer Science   *2013 - 2017*