# Muhammad Moeen

Engineer  -  Researcher  -  Problem solver

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## Education

**BS Computer Sciences - 2020**

PAK AIMS - Institute of Management Sciences

**CA (Inter) - 2016**

Professionals Academy Of Commerce (PAC)

## Professional Summary

I am a Software engineer with **4+ years of professional experience** in developing web applications using **Javascript / Typescript, Python and PHP.** I love exploring new technologies as they often present innovative and creative approaches to solving real-world technical and business problems. I can sum-up my capabilities and experiences in the points below

- Sound knowledge of **MVC** and **REST** architectures and their components
- In-depth understanding of **automated tests** and **mocking**
- Experienced in **relational** and **non-relational databases** and schema design
- Expertise in containerizing applications using **Docker** for **cloud deployments**
- Experienced in **project requirements analysis**, **system design documents** and time estimation
- Experienced in working and communicating directly with clients

## Experience

### OSO Software Outsourcing — *Software Engineer*

August 2020 - Present

- Working as a **full-stack** developer in **PHP Laravel, NodeJS** and **Python FastAPI**
- Worked through the full **SDLC** of projects
- Writing **end-to-end tests** to ensure bug-free and reliable code
- Containerization of applications though **Docker** and deployment on cloud providers like **AWS**
- Performing code reviews and assisting other developers in problem solving

## Projects

### Delivery Management System

DMS is a platform for scheduling resources and shipments of raw materials for construction projects. The application provides features for scheduling and booking of construction related resources like cranes, forklifts, elevators and laydown areas.

## Skills

Full-stack application development

UX Designing

Integration and Unit testing

Dockerized server deployments

Linux expert

Project Requirements analysis

Client liaisoning

Building team cohesion

Mentoring Juniors

Creating technical documentation


## Programming Languages

Javascript/Typescript ……………………. 90%

Python …………………………………………. 80%

Go ……………………………………………,.. 70%

Java …………………………………………… 50%

C++ ……………………………………………. 40%

PHP ……………………………………………. 40%

Elixir …………………………………………… 30%


## Interests

Machine learning and AI

Low-level programming

Sci-fi books

Pixel art

Cooking

- Setup system for capturing details of site and all related assets
- Created mechanism for **booking multiple site resources** for handling incoming deliveries
- Implemented **real-time location tracking** of delivery vehicles using **websockets**
- Wrote **unit-tests for 150+ API end-points** to ensure reliable operation of the back-end
- Created a **Python microservice** for generating rich formatted PDF & Excel reports with charts using **Matplotlib and Pandas** and serving through **FastAPI**
- Packaged application using **Docker** for deployment on **AWS** through **Elastic Beanstalk**


## Lab on Web

A learning management system (LMS) targeted at STEM students and Institutions, as it employs physics and mathematical simulations in the browser. It offers standard LMS features and also following specialized features

- Created stateless REST APIs for providing data for the front-end, using **KoaJS**
- Implemented **role-based access controls** so users only have access to data relevant to them
- Integrated **AWS services** like **SES** for Email and **S3** for file storage
- Used **JWT**s with automatic token expiry and refresh, for user authentication
- Containerized application using **Docker** and deployed on **AWS** through **Elastic beanstalk**


## Doxy

A platform for generating legal documents from templates, notarization, and requesting digital signatures from other users of the platform. Some noteworthy features of the platform are as follows

- Used **PHP Laravel** as back-end framework and **VueJS** for interactive page components
- Implemented mechanism for **defining dynamic legal document templates**, with variations for different US states
- Setup system for allowing to **extend existing templates** and customizing them
- Allow users to generate documents from templates and save them to their account for future use
- Setup mechanism for sending out document signature requests, with marked places for signatures.
- Implemented **custom PDF viewer** as part of document template creation process
- Setup **marketplace** allowing users to enlist their document templates on the platform