Muhammad Moeen

Engineer - Researcher - Problem solver

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Lahore, Pakistan

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 **3+ 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

Skills

Full-stack application development

UX Designing

Integration and Unit testing

Dockerized server deployments

Linux expert

Top-tier googling

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

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. Other notables features includes the following

- Real-time location tracking of delivery vehicles, including temporary routing of vehicles to off-site holding areas in order to prevent road congestion around construction sites.
- Drag and drop deliveries calendar for easy rescheduling of planned deliveries.
- Personnel management for Gatekeepers and subcontractors, including temporary site assignments.
- CO_2 footprint tracking different types of vehicles using government provided APIs.
- Analytics dashboards with charts and graphs to provide overview and insight into current operations of each construction site.
- Generating rich formatted PDF & Excel reports with charts through a custom **Python microservice**.

Technology stack

- NextJS, React Query, Redux, Tailwind CSS
- Fastify server with Typescript
- Vitest for unit testing
- Websockets using Node WS
- Prisma ORM with PostgreSQL
- AWS services (SES, S3, RDS, EBS, Cloudfront)
- Python FastAPI with Pydantic, Jinja2, Weasyprint and Matplotlib
- Docker

Lab on Web

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

- Separate dashboards for Institutes, teachers and students; each with their own unique features
- Allow site admin to add new Institutes to the system, revoking access in case of dispute or non-payment
- Allow institute admins to add teachers and students, organize offered courses, assign courses to teachers and generate course schedules

- Allow teachers to create scientific simulations dynamically and attach them to different courses and assignments. Teachers can also view student submission, add grades, start comment thread on submitted assignments
- Students can enroll in new courses, receive periodic assignments and submit work on said assignments.
- Integrated notifications system to send real-time notifications to between users on different events and actions.

Technology stack

- NextJS, Redux toolkit, ANT Design
- KoaJS, ValidatorJS with Typescript
- Mongoose with MongoDB
- AWS services (SES, S3, EC2, EBS)
- Docker

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

- Create dynamic document templates by uploading existing PDF files, and organizing all required information info groups of questions.
- Groups of questions are presented to users as a dynamically created multi-step form with option to live-preview the document as it is being filled out by the user.
- Enlist the document template on the platform template marketplace.
- Generate legal documents from own templates or templates from the marketplace.
- Request digital signatures by entering Email addresses. If the email address does not belong to a platform user then the recipient must register to sign the document.
- Ability to place signature image on the document as well as adding e-signature on the PDF document.

Technology stack

- VueJS with Vuetify
- PHP Laravel with Blade templating
- MySQL