Muhammad Moeen

Software engineer with 3+ years of professional experience in Javascript and PHP.

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Professional Summary

Software engineer with 3+ years of professional experience in developing full-stack web applications using Javascript and PHP. I enjoy developing software in new and exciting technologies as they often provide innovative approaches to solving technical and business problems. I can sum-up my capabilities and experiences in 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
- Experienced in project requirements gathering, workflow analysis, technical 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** and **NodeJS**
- Quickly integrate into existing team of developers
- Worked through the full lifecycle 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**
- Code review and assisting other developers in problem solving

Skills

Back-end development

Automated / unit testing

Project requirements analysis and time estimation

Client communication

Technologies

Node JS

React, Vue, Svelte

Linux, Shell, Docker

Git

AWS - EBS, SES, S3, RDS

Numpy, Pandas, Matplotlib,

Scikit-learn

Languages

Javascript/Typescript ……… 90%

Python ………………………….. 70%

Go …………………………………. 70%

C++ ………………………………. 40%

Projects

Delivery Management System

DMS is a system for managing construction resources and incoming shipments of raw materials for large-scale construction projects. The application provides comprehensive features for scheduling and booking of construction related resources like cranes, forklifts, elevators, laydown areas etc. 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 multiple site assignments.
- Co2 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 specialized **Python microservice**.

Technology stack

- NextJS (static export), React Query, Redux, Tailwind CSS
- Fastify, AJV
- Vitest for end-to-end 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 incorporates 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

Interests

Machine learning

Low-level programming

2D game development

Education

BS Computer Sciences - 2020

PAK AIMS - Institute of

Management Sciences

CA (Inter) - 2016

Professionals Academy Of

Commerce (PAC)

A-Levels - 2013

National Grammar School

- 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 (static export), 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, Axios, Vuetify (Material design)
- Laravel, Blade
- MySQL