

MOHAMED BASHIR

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PROFILE

- Innovative, responsible and eager to develop and improve.
- Have initiative and can work independently or as part of a team.
- Adaptable and quick learner.
- Extensive problem-solving skills.
- Can communicate clearly regarding complex issues.
- Perfectionist, I don't stop until the job is done correctly.

EXPERIENCE

From	To	City/Country	Employer	Job Title	Job Description
01/2019	Present	Khartoum/Sudan	Interface Co. Ltd	Software Developer outsource at Zain Telecom Company	Digital services and enterprise applications development & middleware services integration.

EDUCATION

From Year	To Year	Education Type	Branch of study	Institute	Degree	Grade
2013	2018	University	Electrical and Electronic Engineering – Electronic Systems Software Engineering	University of Khartoum, Sudan	B.Sc. (Honors)	First-Class

EXPERTISE

Programming Languages and frameworks

- Java, Python, JavaScript, SQL.
- Spring Boot, Hibernate, JPA, JUnit.

- SOAP client (WSDL to JAVA), JAXB API.
- REST/SOAP API.
- Maven/Gradle.
- NodeJS, Express.js, ReactJS, Flutter SDK, Android.
- Hands-on experience on GitHub/Gitlab and SVN.
- Hands-on experience on WSO2 integration tool (EI, DSS, AS...).

Software Architecture

- Hands-on experience on SOA architecture and enterprise integration through ESB.
- Hands-on experience on MVVM architecture for Mobile Apps development, LiveData & Databinding.

Database Management Systems

- Experience with Oracle SQL and MySQL.
- Experience with NoSQL (MongoDB).

Cloud and Containerization

- Familiar with AWS EC2 and S3.
- Familiar with DevOps and Docker containers.

SAMPLE PROJECTS

Backend Development

- ***Covid19 Tracker***
 - A simple web application developed using Spring Boot and Thymeleaf template engine as a view.
 - The web service consumes a public API for the number of COVID-19 cases reported daily across the globe.
 - Hosted in AWS cloud:
<http://ec2-18-196-136-39.eu-central-1.compute.amazonaws.com:8081/>
- ***Result Service Application, Charging WS***
 - An enterprise web service that allows Zain subscribers to send a student's (Uni, Highschool, Elementary) index/student number to USSD/APP channels and receive their result.
 - Built a customer charging RESTful middleware service using WSO2 Integration tool.
 - Implemented spring Rest-Template to consume the above charging service.
 - Configured the Rest-Controller to return SOAP response to USSD requests, and JSON response to APP requests.

- Carried out the development using Agile Methodology.
- **Registration Application**
 - A web service that allows Zain subscribers to register to a service using USSD code to communicate with the mobile network operator.
 - Implemented the web service using Spring boot with MVC
 - Utilized *fasterxml* Maven dependency for JSON-POJO mapping.
 - Consumed SMSC System request to send SMS message to the requesting number with the result of the service registration.
 - Communicate with senior developers the status of the project and any obstacles faced in Agile stand-up meetings every day.
 - Maintained the project's source code and versions in Apache SVN.
 - Used WSO2 integration tool to manage the database in DSS server, and to integrate different APIs required by the application.
- **Donation Web Service**
 - Developed the web service using spring boot with SOAP client to communicate with USSD protocol according to the business requirements.
 - Generated SOAP client from WSDL file and utilized JAXB API to communicate effectively with the SOAP web service.
 - Configured Oracle SQL as a data-source and used Spring JPA for database queries.
- **Vidly**
 - A fake movie rental service developed using NodeJS with ExpressJS framework for backend.
 - MongoDB was used as a data source.
 - Implemented user authentication feature for the admin portal using JWT token.
 - Developed an admin portal using ReactJS.

Mobile Development

- **Twzeef (ongoing)**
 - Developed Twzeef android app using MVVM architecture, LiveData and databinding.
 - The app connects job seekers with recruitment agencies in Sudan. It allows the user to register/login, create a job-seeker profile, search for jobs and scroll through available jobs and agencies.
 - Retrofit was used for networking along with GSON library for JSON parsing.
- **ZainPass (ongoing)**

- E-payment mobile app developed using Flutter SDK.
- Lead developer in the project.
- Led the Agile sprint planning, stand-up meetings and coordination between business owners, QA teams and developers.
- Utilized *Trello* cards for sprint planning and issue tracking.
- Hands-on experience with GitLab for managing the project's source code and versions.
- **MyZain**
 - Developed MyZain android app. The app allows Zain subscribers to send text messages to REST API and receive bot responses in the form of chatting.
 - Google's volley library was used for networking.
 - <https://play.google.com/store/apps/details?id=sd.zain.com.zainbot>

AI and Machine Learning

- Developed an AI system using Python with fastAI library to classify Tuberculosis disease from normal X-ray images with 96% accuracy.
<https://zindi.africa/users/mohamedAbdalla/competitions/certificate>
- Developed an AI system using Python to detects whether a person in an image is wearing a face-mask or not with 99% accuracy.
<https://zindi.africa/users/mohamedAbdalla/competitions/certificate>

LANGUAGES

<u>Language</u>	<u>Level</u>
Arabic	Native
English	Professional

REFERENCES

- **Rania Naeem**
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- **Azza Hassan**
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