Mohamed Gafar

Software Developer

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EXPERIENCE

University of Bonn — *GIS Developer*

SEP 2020 - PRESENT // Bonn, DE

- Member of the Geoinformation working group.
- Worked on the data management of the project PhenoRob. (Phenotyping and Sustainable Crop Production).
- Developed web apps and databases using **PostgreSQL, Spring Boot,** and **JavaScript** to manage the storage and processing of agricultural data.

Fraunhofer IAIS — *Software Developer*

AUG 2020 - PRESENT // Sankt Augustin, DE

- Developed web applications for semantic data research using **JavaScript**, **ReactJS**, **Spring Boot** and **MongoDB**.

Solus — *Co-Founder - Android/iOS Developer*

JAN 2019 - NOV 2019 // Khartoum, SD

- Co-founded Solus. A startup that offers electronic payment solutions in Sudan
- Developed and released CashQ, a mobile payment application to pay bills and make online purchases in Sudan

XZONE — *iOS Developer*

MAY 2018 - DEC 2018 // Khartoum, SD

- Developed and maintained two native apps for iOS.
- Worked with **UIKit**, **RESTful** web services, localization, CoreData, Push Notifications, **Facebook AccounKit SDK, REST APIs**, **AVAudioEngine**, WebSocket and other technologies.
- Worked in an Agile Environment for project and team management.

Ashrafcom — *Software Developer (Android)*

JAN 2018 - MAY 2018 // Khartoum, SD

- Improved and implemented new features to Morsal e-payment app.
- Integrated Morsal app with maps and geolocation features.
- Configured Android Point-of-Sales (POS) and integrated magnetic card readers and printers with the Android app.

Geo & Innovation — *Co-Founder - Android Developer*

MAR 2017 - DEC 2017 // Khartoum, SD

- Co-founded Geo & Innovation, a startup that provides **GIS** services.
- Developed native Android applications using **Java**, **Android SDK**.
- Worked with **Google Maps** and **Places APIs.**
- Created Location-based Android apps that integrate with **MySQL** database using **Spring Boot** web APIs.

University of Khartoum — *Teaching Assistant*

DEC 2016 - DEC 2017 // Khartoum, SD

- Provided training in **ArcGIS**, **MATLAB** and aided students in presentation skills and scientific writing.
- Collaborated with a team of faculty at weekly meetings and actively contributed new ideas on teaching.

SKILLS

Programming Languages
Java, Swift, Kotlin, SQL, HTML/CSS, JavaScript, C++

Frameworks
Android, iOS, ReactJS, SpringBoot, ArcGIS, QGIS, ArcGIS JS API, OpenLayers

Tools
Bash, Git, Maven, Docker, CI/CD

EDUCATION

University of Bonn

NOV 2019 - FEB 2023 // Bonn, DE

M.Sc. in Geoinformation

University of Khartoum

SEP 2011 - DEC 2016 // Khartoum, SD

B.Sc. in Surveying Engineering

FEATURED PROJECTS

Geoinformation System — *JavaScript/Spring/Postgresql*

Web dashboard to visualize and monitor agricultural fields.

TravelTimeApp — *Android/Java*

Visualize where you can go within a certain amount of time on a map.

CashQ — *Android/Java*

Mobile banking app pay bills and make online purchases in Sudan

AWARDS

Among the Best Twelves Projects in Mashrouy (My Project) Entrepreneurs Contest, British Council, Sudan (2017).

Winner of the best graduation project in the surveying engineering department, University of Khartoum (2016).