



FRANK ERIC MBOUGA

APPLICANT CONSULTANT DEVOPS BY IBM DEUTSCHLAND & LOCAL LEAD ORGANIZER OF
VIRTUAL NASA SPACE APPS CHALLENGE BY NASA - NATIONAL AERONAUTICS AND SPACE
ADMINISTRATION

PROFIL

Applicant Consultant DevOps by IBM
Deutschland

ADRESSE

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AUSBILDUNG

October 2020 - November 2022

Technischen Universität Kaiserslautern (M.Sc)
Focus: Software Development & artificial
Intelligence

Topic: "Survey on Feature Identification in
Source Code for an automated r
recommendation for merging branches
in variant-rich software systems using AI
approaches"

Note : 2,7

September 2017 - September 2020

Technischen Universität Kaiserslautern (B.Sc.)
Focus: Software Development & Artificial
Intelligence

Topic: "Conception, Implementation and
Evaluation of the Virtualization of
Hardware Components
for digital Twinning"

Note: 2,8

September 2015 - February 2017

German Course; Certificate : DSH 2

September 2008 - June 2015

Government Bilingual High School Essos GCE,

Note: 1,5

PROFESSIONAL EXPERIENCE

IBM Deutschland GmbH Applicant consultant DevOps

Since November 2022

Working in Full stack development with Angular, css, HTML,
RestAPI and DevOps activities with Sonarcube, Insible, etc
as a consultant

Hiqs GmbH - Software Developer

Since April 2022

Development of Technology using Python, Django and MySQL.

German Research Center for Artificial Intelligence (DFKI) - Student

January 2022 - March 2022

Helping in the Organisation of the Event Data Science for
Social Good Germany

PROFESSIONAL EXPERIENCE

Fraunhofer IESE - Student Assistant of Software Engineering Department

Since December 2019

- Research in several areas regarding Digital Twinning and important techniques necessary to implement a Digital Twin
- Development of Machine Learning algorithm with Specialization on Deep neural network in PyTorch and Keras, necessary for Building models that can be used in the Creation of Digital Twinning.
- Worked on the virtual production of components of a Game Factory, where the Technology of Digital Twinning will be used, Machine learning algorithms will be developed for several issues including increasing the performance of our different algorithms based on available Dataset.
- Software Architecture and Assistant Developer on the Fraunhofer Various Analysis.

BOMBARDIER Transportation GmbH Software Developer

February 2019 - September 2019

Information Management using Dynamic Object Oriented Requirements System(DOORS) from IBM to ensure effective import, export and full mangement of Requirement Data.

Univativ GmbH Contract Software Developer

October 2018 - October 2019

PROFESSIONAL EXPERIENCE

SUSI & James GmbH Application Developer and Student Internship

**April 2018 - September 2018
Application Developer**

Working on some Web application project, to develop a simple application intern for the company after internship.

**March 2018 bis April 2018
Student Internship**

Developmnet of Web applications using php, ajax, jquery, mysql, html5, css3 and bootstrap

PROJECTS

Team Based Software Development - MASTER PROJECT with Fraunhofer IESE

Since April

I am the Lead Software Architect of this Project and beside my work as Software Architect, I am also Developer where I work on a Cloud Computing Technology from IBM called NODE-RED in order to interconnect the different part of our System. NODE-RED act here as a Middleware. I am also using my Python Skills I learned from my Bachelor to create several Visualizations like BAR Diagram, Treemap and Table Visualizations.

The project belongs to Fraunhofer and it is under Variation Analysis. I don't have the right to offer more information about the Project.

Smart Factory Design with DFKI

October 2021 - March 2022

It is an additional project on which I worked on with the aim of improving my practical experiences. The main goal of the project was to scan Job orders in the form of pdf document, analyse the order before processing it. Main Technologies involved were Python (RASA Framework) for analysis and programming, ReactJs for building a UI interface, etc.

The main role I engaged in the project was related to Software Engineering, Requirement Engineering, Software Architect and Testing. I also develop part of the UI using ReactJs.

I did not programmed the Analysing tool with python. That was handled by my colleagues though I minutely participated.

Deep Neural Network - BACHELOR PROJECT with Fraunhofer IESE

April 2020 - October 2020

Beside my Working Student Job at Fraunhofer, I worked on my Bachelor Thesis there at Fraunhofer. I developed a Deep neural network capable of predicting the velocity of a car based on important data which has nothing to do with Acceleration. Nevertheless, my model could make appreciable prediction which gave me a 1.3 Score on the result of my Bachelor Thesis.

PROJECTS

Bachelor Project in Software Engineering with TU Kaiserslautern

April 2019 - October 2019

On this project, I contributed with my team of 3 people at developing a SNAKE Game requested by our supervisor. The game was developed completely in JAVA and it was an intern project for the University of Kaiserslautern. Because I also developed the same game in C++ based on the C++ experienced I got working for the Canadian Transportation Company BOMBARDIER, my Supervisor called the Attention of Fraunhofer and that is how I achieved my dream of working at Fraunhofer + having my Bachelor Thesis at Fraunhofer after 2 straight years of attempt

Software Development Project with TU Kaiserslautern

October 2018 - April 2019

with four other people and we developed the Kanban game in Java. I worked on interconnection using RMI Server&Client, developed GUI (Graphic User Interface) of the Game using Javafx. Additionally I supported my team members on developing the Software Engineering aspect of the project in addition to the Logic of the Game.

SKILLS AND INTERESTS

IT Competence

- Java, C++
- Python, Django
- Javascript, Node Js, php, ajax, jquery, html5, css3, MySQL , Bootstrap, React Native, ReactJs, and Angular
- MS OFFICE : Word, Excel, PowerPoint

Language Skills

- German : Fluent
- English : Native Speaker
- French : Native Speaker

DISTINCTIONS

NASA Spaces Apps 2021:

I am the local lead Organizer of an amazing Hackathon Challenge on developing NASA Space Apps that will took place on the second and third October 2021 in Kaiserslautern. I managed a huge amount of people, students, ect in order to organize the entire event which was a beautiful success. It was the first time in History such an Event took place in Kaiserslautern

ENGAGEMENT

- Africa Development Incubators - ADI e.V. :
Founder and developed the website of ADI e.V.
- JustCodeKL : Founder& Chairman, Tutor
- Weltladen Magdeburg : Referent,
Educational Assistant
- Technische Universität Kaiserslautern :
Mentor

HOBBIES

- Football
- Chess
- Reading
- Music

CITY AND DATE

Berlin, 22.12.2022