

Ouedraogo Ibrahim

PhD Candidate in Computer Science

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WORK EXPERIENCE

Data Manager / Jul 2022 - Dec 2023

National Institute of Public Health (Centre MURAZ) - Bobo Dioulasso, Burkina Faso

Implementation of data collection strategies.

Extraction, transformation, storing and analysis of tabular and geospatial data to extract.

Reporting with BI tools such as Microsoft PowerBI

Python Pandas scikit-learn FastAPI

Apache Airflow PostgreSQL Microsoft PowerBI

Full Stack Software Engineer / Jun 2021 - Jul 2022

KREEZUS Burkina - Ouagadougou, Burkina Faso

Worked on backend, frontend and mobile projects in an agile environment

Continuous Integration and Continuous Deployment on Google Cloud Platform

React/NextJS Nest.js Flutter Android iOS

FastAPI Docker Jenkins Gitlab Terraform

GCP

Core Network Engineer / Nov 2019 - Dec 2020

HUAWEI Burkina - Ouagadougou, Burkina Faso

With the team in charge of the deployment and configuration of 3G and 4G base stations, I helped to

deploy the 4G network for the service provider TELECEL FASO and optimize the network performance.

I also worked on the activations of 3G and 4G base stations for other service provider

Python

Junior Software Engineer / Aug 2018 - Nov 2019

BAFATECH - Ouagadougou, Burkina Faso

I developed a mobile application for home delivery of products

The application has been made available through an API using the PHP Lumen Micro-framework.

Ionic Angular TypeScript Laravel Python

SKILLS

Main programming languages: Python, TypeScript, GoLang, Java/Kotlin, C#, C++, Rust

Machine learning/Deep learning: Scikit-learn, PyTorch, Tensorflow, NumPy, DVC + CML, Mlflow, Pandas, Polars

Frontend: NextJS, React, Angular

Backend: FastAPI, NestJS, Laravel

Mobile: Flutter, Android

CI/CD: Docker, GitHub Actions, GitLab, Jenkins, Azure DevOps

Others: Apache Airflow, Kubernetes, Databases

PROJECTS

- Yalendar.com is a web application that allows users to book appointments with professionals in various fields.
- For the National Institute of Public Health, I implemented a data pipeline to extract, transform, and load data from a data warehouse to a data visualization tool.
- I design and implement a **Question Answering** model on legal texts in Burkina Faso

EDUCATION

Ph.D. in Computer Science / (2024 - ongoing)

University of Montreal - Montreal (QC), CANADA

Thesis : Software Engineering enhanced by Artificial Intelligence

M.Sc. in Data Mining and AI / (2021 - 2023)

Virtual University of Burkina Faso - Ouagadougou, Burkina Faso

Thesis : Development of a Question Answering model on legal texts in Burkina Faso

B.Sc. in Computer Science / (2015-2018)

University Aube Nouvelle - Bobo Dioulasso, Burkina Faso

Thesis : Design and implementation of a geolocation application for pharmacies, real-time product verification, and home delivery.

AWARDS

- Bronze medal at the 2016 National ICT Competition (GenieTic) for young tech entrepreneurs in Burkina

Faso.

- Selected as a participant in the 2019 HUAWEI Seed of the Future program.



LANGUAGES

French
English

