Alpha Diallo

✉ me@alphadiallo.ch 🚩 Switzerland (B permit)

PROFILE

PhD Researcher with experience in managing IT teams and building large-scale systems. Expertise in Data Analytics, Cloud Computing, Business Strategy, Project Management, and R&D (Research and Development). Proven track record in leading complex IT projects, optimizing data workflows, ensuring high-quality data governance, and fostering partnerships and relations with stakeholders.

EDUCATION

University of Lausanne, *PhD Information Systems* ↗
03/2020 – present
Lausanne, Switzerland

University of Lausanne, *MSc Information Systems* ↗
Joint Master of Science in Information Systems, HEC Lausanne - University of Neuchâtel, Switzerland
09/2017 – 12/2019
Lausanne, Switzerland

University of Nongo,
BSc Computer Science (Major in Networks and Telecommunication)
2011 – 2014
Conakry, Guinea

WORK EXPERIENCE

University of Lausanne, *Graduate Teaching Assistant* ↗
03/2020 – present
Lausanne, Switzerland
- Taught "Algorithms and Computational Thinking" and "Practical Programming in Python" to over 200 students, focusing on data structures and efficient data processing.
- Led advanced programming labs in Java and Python, mentoring students in developing data-driven applications.
- Set up and maintained infrastructure for running research projects.

University of Lausanne, *Student Assistant* ↗
11/2018 – 02/2020
Lausanne, Switzerland
- Assisted in courses on Distributed Systems and Emerging Distributed Architectures, emphasizing scalable data solutions.
- Guided students in projects involving distributed data systems, enhancing their data synchronization and cloud-based data management skills.

Matchmore SA, *Business Analyst* ↗
06/2018 – 10/2018
Lausanne, Switzerland
- Aligned business needs with development of SDKs and APIs, enhancing data integration and usability.
- Developed three white-label applications, improving data access and user interaction through innovative design.

Infomaniak SA, *Administrative and Technical Support Agent - Part time* ↗
03/2018 – 08/2018
Geneva, Switzerland
- Support and live assistance for all the company's products (Web and Email, cloud servers/VPS, and Synology)
- Server configuration and maintenance of web-based applications

Private Investment Promotion Agency, *Consultant, IT Manager* ⬀   12/2014 – 11/2016
- Led the development of a national portal of investments (invest.gov.gn).   Conakry, Guinea
- Managed a web platform's building process, allowing investors to get real-time data on the business climate.
- Implemented IT strategies and data governance policies, ensuring World Bank and IFC standards compliance.
- "Employee of the Month" in March 2015 for outstanding project leadership.

SKILLS

Data Engineering and Analytics
SQL, DataOps, Statistical Programming, Data visualization, Machine Learning and Predictive modeling, GIS and Spatial Analysis

Cloud Computing
GCP, AWS, Linux SysAdmin, Cloud Data Architecture, DevOps, CI/CD, Containerization (Docker, Kubernetes)

Programming
Java (EE and FX), Javascript (React, Vanilla, JQuery), Python (Django, Flask), C/C++, Bash

Project Management
Agile with Scrum, Change Management, Risk Management, Leadership of Distributed Teams

Soft skills
Reliability, Work ethic, Flexibility, Professionalism

PUBLICATIONS

A Pragmatic Trade-off Between Deployment Cost and Location Accuracy for Indoor Tracking in Real-Life Environments, *14th International Conference on Localization and GNSS (ICL-GNSS 2024), IEEE*
Antwerp, Belgium

Decentralized Collaborative Inertial Tracking, *20th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2023)*
Melbourne, Australia

Mobixim: A Framework for Devising Collaborative Algorithms, *12th International Conference on Indoor Positioning and Indoor Navigation (IPIN 2023), CEUR Workshop Proceedings*
Nuremberg, Germany

LANGUAGES

French   ● ● ● ● ●
C2

English   ● ● ● ● ●
C2

Spanish   ● ● ○ ○ ○
A2

INTERESTS

Reading
Economics, Geopolitics, Anthropology

Robotics and Internet of Things (IoT)
3D printing, Indoor Tracking, CAD Design

AWARDS

Winner of a national programming competition,   2012
Digital Fair - Conakry, Guinea

VOLUNTEERING

Powercoders, *Coding Academy for Refugees & Migrants*   2018 – 2020
                                                                           Lausanne,
                                                                           Switzerland

Hour of Code   2015 – 2016
Teaching Programming to children from disadvantaged areas   Conakry, Guinea