

Wassim Kribaa

COMPUTER SCIENCE ENGINEER

Rue hakime saadane, Biskra, Algeria

+213 541 08 95 45 | hw_kribaa@esi.dz | Wassimkr | wassim-kribaa-72369319a



Summary

With a background in Computer Science Engineering and valuable experience acquired through internships and projects, I am pursuing a stimulating role that will enable continuous learning and growth. In this position, I aspire to contribute my skill set to a vibrant team. I look forward to collaborating with seasoned professionals, utilizing my accumulated knowledge and abilities from past successful project executions.

Work Experience

Cerist

Algiers, Algeria

RESEARCH INTERN

Sep. 2022 – Present

The objective of this project was to create application profile models that could efficiently manage the lifecycle of applications based on microservices. Initially, I conducted extensive research on existing profiles to understand their functions. Following this, I designed a custom application profile model that catered specifically to the needs of the microservices-based application. Subsequently, I built a dashboard that would facilitate the integration of these models and manage the lifecycle of the applications, utilizing semantic web technology for knowledge representation. For deployment of the applications, I made use of Docker Compose, while the YAML templating language was used to outline the monitoring policies. For application monitoring, Prometheus and Grafana were the tools I employed.

SAA-Biskra

Biskra, Algeria

WEB DEVELOPER INTERN

Aug. 2021 – Sep. 2021

I created a new administrative dashboard for the employees of SAA, aimed at facilitating the management of the agency's clients.

Talaba Store

Algiers, Algeria

FULL STACK WEB DEVELOPER INTERN

Jul. 2020 – Sep. 2020

I took on the responsibility of creating a new e-commerce website intended to function as an online store. The development process entailed the use of JavaScript and HTML/CSS for frontend construction, Laravel for the backend architecture, and a MySQL database for data management.

Mobilis

Biskra, Algeria

INTERN

Aug. 2018 – Sep. 2018

I have become a part of the development team at Mobilis as an intern. My responsibility was to develop an API for filtering the contracts.

Education

École Nationale Supérieure d'Informatique ESI (Higher School of Computer Science)

Algiers, Algeria

STATE ENGINEERING DEGREE IN COMPUTER SCIENCE, IT SYSTEMS BRANCH.

Sep. 2017 – Sep. 2023

École Nationale Supérieure d'Informatique ESI (Higher School of Computer Science)

Algiers, Algeria

MASTER'S DEGREE IN COMPUTER SCIENCE, IT SYSTEMS BRANCH.

Sep. 2017 – May. 2023

Reda Achouri School

Biskra, Algeria

HIGH SCHOOL DEGREE IN SCIENCE WITH HONOR.

Sep. 2014 – Jul. 2017

Technical Skills

Programming	JavaScript, PHP, Java, Python, Owl, RDF, C++
Web	React.js, Node.js, Express.js, Laravel, HTML/CSS
Databases	Oracle Database, MySQL, MongoDB, Firebase
Project Management	GitHub, Trello, Slack, Jira
DevOps	Docker, Kubernetes, Prometheus, Grafana

Projects

IoT Projects

Algiers, Algeria

- **Home Automation** : This project is a home automation system designed to empower users with seamless control over all their household devices using voice commands through a mobile application. The implementation utilizes a combination of Arduino, Java, Spring Boot, and IoT devices to create a cohesive and efficient solution.
- **Smart Box** : This project involves a smart mailbox that efficiently handles the user's incoming mail. It accomplishes this by sending an SMS notification to the user whenever a new mail is received in the box. The system was created utilizing NodeMCU, GSM technology, an Ultrasonic sensor, and the Arduino IDE.

Cloud and virtualization

Algiers, Algeria

- **Set up a Kubernetes cluster** : We have created a MERN web platform that seamlessly interacts with a Kubernetes cluster. Within this cluster, docker images of software essential for specific school subjects are deployed. This integration aims to simplify the workflow for teachers and students during their practical sessions and labs (TPs/Labs), providing an easy-to-use solution for their academic activities.
- **Create a private cloud with OPENSTACK** : The project focused on the installation and implementation of a robust OpenStack-based Private Cloud. The main objectives of the project were to Deploy OpenStack, Configure Networking, Provision Virtual Machines, and Integrate with Storage.

Machine Learning

Algiers, Algeria

In my projects, I have taken the initiative to implement a diverse range of machine learning algorithms, showcasing my proficiency in various methodologies. Some of these algorithms include: Support Vector Machines (SVM), Regularization, Naïve Bayes, Decision Trees, Random Forests, and Logistic Regression.

Optimization methodology

Algiers, Algeria

In my research endeavor, I have explored the application of the Grey Wolf Optimization (GWO) meta-heuristic to tackle the challenging graph coloring problem.

Networking

Algiers, Algeria

- **Implementation of a VPN/MPLS platform** : As part of our strategic infrastructure enhancement, we have successfully established Virtual Private Networks (VPNs) and Multi-Protocol Label Switching (MPLS) connections between six remote sites of the company. The primary objective behind implementing these networking solutions was to ensure heightened confidentiality and sustained accessibility to the company's critical data.
- **LAN/WAN networks** : I have been actively involved in providing valuable support to two prominent engineering schools and an operator during the implementation of their LAN/WAN networks. Leveraging our expertise, we have utilized a range of cutting-edge technologies to ensure a seamless and secure network infrastructure.

Other projects

React.js, Node.js, HTML/CSS, Firebase, Laravel, MySQL, Flutter, Spring boot

- Developed a web and mobile application for store management using **Flutter**, **Node.js** and **Firebase**.
- Designed a schooling management platform for ESI in a **Docker** microservices format using **Laravel** and **Vue.js**.
- Worked on a mini-project using **Python** and **Spark** to compare learning algorithms.
- Develop a mobil application for the corona statistic in Algeria using **Flutter** and **Firebase**
- Completed mini-projects in **Spring boot** and **Java**.
- Develop a new website similar to AirBNB for hotel's booking using **React.js**, **Node.js**, **Express.js**, **MongoDB**, **Docker**, **Kubernetes**, and **Micorservices** paradigme

Coursework & Certification Languages

- **Cloud Virtualization, Containers** *ESI*
- **Natural Language Processing**, *ESI*
- **Databases and SQL for Data Science**, *Coursera*
- **Data Science Methodology**, *Coursera*
- **Python for Data Science and AI**, *Coursera*
- **Tools for Data Science**, *Coursera*

- **Arabic**: Native
- **French**: Proficient
- **English**: Proficient

Extracurricular

GDG Algiers

DESIGNER

ESI, Algiers

Oct. 2019 – Present

- GDG is a student organization for anyone who wants to share and develop their creativity through new experiences.

Shellmates Club

MEMBER

ESI, Algiers

Oct. 2019 – Jun. 2021

- Shellmates is a group of students passionate about information security. Their objective is to create an InfoSec community, to motivate and encourage knowledge exchange in this field.

- The CSE is one of the largest scientific clubs in Algeria, whose aim is to offer innovative and original content through our hackathons, workshops, training courses and social networks.

Strengths

- Proficient problem-solving abilities
- Exceptional communication and interpersonal aptitude
- Collaborative and effective team player
- Self-driven and proactive attitude
- Quick grasp of new technologies and adaptability
- Attentive to details and highly organized
- Demonstrates creative and innovative thinking

Hobbies & Interests

- Reading books
- Playing sports
- Traveling and experiencing different cultures
- Watching Movies