

Hachicha MOEZ

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SUMMARY

I'm a software engineer passionate about innovative technologies, I have solid experience in frontend development (ReactJS) and backend development (Node.js, JS/TS, Python). I have also contributed to research and development (R&D) projects in various fields such as blockchain, artificial intelligence (AI), cryptography/security and digital identity. I have experience in configuring CI pipelines on GitLab, as well as using Google Cloud Platform (GCP), particularly in managing IAM roles, setting up firewalls, and configuring load balancers. Additionally, I have worked on virtual machine configuration, handling port management, using PM2 for background processes and managing applications... This year, I submitted an article on blockchain to the CRiSIS 2024 conference, which was accepted, and I have also submitted two journal papers, for which I am currently awaiting responses.

Education

ENIS - NATIONAL SCHOOL OF ENGINEERS OF SFAX , Computer Science	Sept. 2019 to May 2022
<ul style="list-style-type: none"> • Coursework: Algorithms, AI, Cloud, Design Patterns, OOP, Advanced Mathematics, Security 	
IPEIS - SFAX PREPARATORY INSTITUTE FOR ENGINEERING STUDIES , Preparatory Cycle (PTSI), (rank 81/980)	Sept. 2016 to May 2019
<ul style="list-style-type: none"> • Coursework: Advanced Mathematics, Physics, Chemistry, Computer Science, Engineering Fundamentals 	

Experience

Orange Group - Sofrecom Tunisia , Software Engineer	SFAX, TUNISIA Jan 2022 - now 2 years and 9 months
<ul style="list-style-type: none"> • Energy Trading Platform: <ul style="list-style-type: none"> - Implementation of the frontend and backend using ReactJS/Node.js (TypeScript) - Preparation of the CI pipeline in GitLab and runners on dev/prod machines - Development of event consumption services with RabbitMQ and WebSockets (Node.js) - Development of the smart contract part (Solidity) and launching a Quorum blockchain network on multiple virtual machines - Participation in writing an article for Springer (awaiting response). • Patient Consent Project using Self-Sovereign Identity: <ul style="list-style-type: none"> - Creation of a ReactJS and NodeJS application. - Integrated self-sovereign identity (SSI) and blockchain technologies (hyperledger Indy/Aries Agent). • Transformation of a PDF contract into a smart contract : <ul style="list-style-type: none"> - OCR, LLAMA 3.1 OLLAMA - Frontend development with ReactJS, backend with Python Flask - Preparation of a scientific article • Price Prediction of Cryptocurrencies Using Data from Centralized Exchanges: <ul style="list-style-type: none"> - Developed a system to collect real-time data from over 20 centralized exchanges via WebSockets and nodejs. - Utilized scikit-learn and python to generate predictive models for cryptocurrency prices. 	

- Cloud Infrastructure Configuration on Google Cloud Platform:
 - Configured cloud instances on Google Cloud Platform (GCP).
 - Set up firewall rules, identity management access, and network security protocols to ensure a secure cloud environment for multiples instances (vms) of lab projects.
 - Self-Sovereign Identity Tool for Multinational Orange Suppliers:
 - Developed a tool using SSI/Didkit and python to assign unique identities to multinational suppliers.
 - Enabled authentication of Orange franchises by clients via a mobile app (React Native)
 - AI-Driven Smart Contract Vulnerability Evaluation Tool:
 - Developed a tool to evaluate smart contract vulnerabilities generated by LLAMA3/Gemma2/Mistral... (OLLAMA).
 - Automated the generation and testing of smart contracts
 - Used Node.js and shell scripting for unit tests (Hardhat/Chai.js) and vulnerability evaluation (Slither), identifying top-performing AI models.
 - NFT (ERC721) Marketplace for Physical Assets:
 - Developed an NFT marketplace application for physical assets using ReactJS, NodeJS, and ExpressJS.
 - Implemented a secured connection with ESP32 for data transmission to the blockchain from embedded systems.
 - Education Platform in the Metaverse/Blockchain using Location NFTs (ERC 4907)
 - Supervision of two final-year interns.
 - Technologies/languages used: Unity, Solidity, TypeScript, ERC 4907
 - Participation in writing an article for Springer (awaiting response).
- Technologies:** ReactJS, NodeJS, Linux, Docker, expressjs, MongoDB, RabbitMQ, Websocket, TypeScript, sh, Scrum, Jira, Git, GitlabCI, Design Pattern (Singleton, Factory, Adapter), OOP, agility, GCP, Blockchain, LLM, OLLAMA, SLITHER, CHAIJS, OpenZeppelin, ERC721, ERC1155, ERC4907, PM2, Gitlab CI, Google cloud Platform GCP, Firewall, LoadBalancer, IAM

TECH'UP CONSULTING , Summer Internship + Part-Time Job

Paris, France - Fully Remote
JUN 2021 to DEC 2021
6 months

- Conduct a series of comparative and qualitative analyses on the migrated assurance data from multiple database structures.

Technologies: SpringBoot, ANGULAR, GIT, JPA, JDBC, PostgreSQL

PETROSERV CATERING , Summer Internship

Sfax, Tunisia - Fully Remote
JUN 2021 to AOUT 2021
2 months

- Web solution for managing Petro-serv Catering's invoices, employees, and other administrative tasks.

Technologies: SpringBoot, ANGULAR, GIT, JPA, JDBC, PostgreSQL, Agility, Trello

IOVISION.IO , End of year project

Sfax, Tunisia
JAN 2021 to JUN 2021
5 months

- Mobile application that provides users the simplicity when searching for goods and services across all domains.

Technologies: SpringBoot, ANGULAR, IONIC, Adobe UI, GIT, JPA, JDBC, PostgreSQL, Agility, Trello

ACTEOL , Summer Internship

Sfax, Tunisia
JUN 2020 to AOUT 2020
2 months

- Web solution for the management of the company.

Technologies: .NET, ANGULAR, GIT, PostgreSQL, Agility, Trello

Certifications

COURSERA: Google Cloud Fundamentals: Core Infrastructure View Certificate	2024
COURSERA: Google Cloud DevOps Fundamentals View Certificate	2024
COURSERA: Containerize a full-stack NodeJS application in Docker View Certificate	2024
COURSERA: Introduction to Docker: Build Your Own Portfolio Site View Certificate	2024
COURSERA: Tracking Cryptocurrency Exchange Trades with Google Cloud Platform in Real-Time View Certificate	2024

Language Proficiency

- **English:** Fluent in speaking, reading, and writing. Proficient in professional communication and technical documentation.
- **French:** Native speaker with full proficiency in speaking, reading, and writing. Capable of professional communication and technical documentation.
- **Arabic:** Native language.
- **German:** Basic skills.