OUSSAMA TRABELSI

Software Engineer and Big Data Security Researcher

+216-54115317

▼ trabelsioussama010@gmail.com

github.com/t-oussama

in Oussama Trabelsi



EDUCATION

Faculty of science of Tunis **PhD Student**

2019 - Present

▼ Tunis. Tunisia

Published paper: DCBC: A Distributed Highperformance Block-CipherMode of Operation

Implementation: C++ implementation using multi-threading as well as multi-processing

National Institute of Applied Science and Technology

Software Engineering Degree Major: Software engineering

Minor: Big Data **#** 2014 - 2019

▼ Tunis, Tunisia

Bourguiba Pioneer High School High school degree with high honors

2010 - 2014

? Tunis. Tunisia

SKILLS

- Programming languages: JavaScript, Type-Script, Python, C, C++, C#, Java, SQL
- Databases: MySQL, MongoDB, Neo4J
- Big Data technologies: Cassandra, Hadoop, Hive, Spark, Kafka

PROJECTS

Big Data Project

- Developing a listing tool of the most used technologies according to their appearance in the Freelancer website Job proposals.
- technologies: Kafka, Hadoop, Spark, Python

"INSAT Numerique" Project

- Developing a micro-service based web application with:
 - Business modules for handling university administrative tasks
 - · An authentication and authorization module
 - A dispatching module that solves data consistency issues across the databases of the different micro-services

LANGUAGES

Arabic, English, French.

EXTRACURRICULAR

- SECURINETS: First national association for cybersecurity in Tunisia:
 - Head of CTF team(2016-2018): Managing a team of multiple members preparing the CTF challenge
 - Advisor(2019-present): Providing help and guidance for new heads of teams in the organization

PROFESSIONAL EXPERIENCE

Full Stack Engineer GOMYCODE

September 2020 - present

Remote

GOMYCODE is a tunisian startup that aims to upskill and reskill people on digital skills through instructor-assisted trainings. It is available in multiple countries including Tunisia, Algeria, Egypt, Bahrain, etc... The teaching platform is developed and maintained by a central engineering team that I am currently part of.

- Full stack developer on an a teaching platform for students within GOMYCODE.
- Leading the migration of the application from a service oriented architecture to a microservices architecture.
- Technologies: .Net Core, Python, ReactJs, Redux, rabbitMQ, Redis, Neo4J, Azure De-

C++ Freelance Engineer

University of Kentucky

may 2020 - September 2020

Remote

University of Kentucky is a research university in Lexington, Kentucky. I got to work directly with Dr. Adel Hamza who specializes in Biochemistry and Cell Biology.

- Working on an application for molecular alignment for drug discovery
- Parallelizing the algorithm provided by LS-align
- The resulting program was 4 times faster than the initial implementation

Full Stack Developer

Dijiant

February 2018 - August 2019

Remote

Djiant is a french company that provides a SaaS platform to help businesses manage their visibility online by centralising and indexing all of their web resources in a single search platform.

Graduation project: March 2019 - August 2019.

Developing a structured search platform using automated data extraction, a backoffice for managing availability zones and a specialized search engine.

The system was made using a service oriented architecture composed of 5 modules:

- Data Extractor Web Front-end Application: Angular 6
- Data Extractor Web Back-end API: NodeJS, ExpressJs, MongoDB
- · Search Engine: Setting up Elasticsearch
- Data Querying Front-end Application: Angular 6
- Automated Web Scrapping & Data Extraction: Python3
- Data Extraction Progress Visualisation: Kibana
- Developing a web platform for data scraping and data validation from different web sources: February 2018 - April 2019.

The platform design follows a 3-tier architecture:

- Front-end: Angular 6
- Back-end: NodeJs, ExpressJs
- Database: MongoDB

Full Stack Developer

Placeholder

May 2017 - January 2018

♥ Tunis.Tunisia

Placeholder is a tunisian software company which was originally centered around mobile development but later expanded its domain to web development and virtual reality.

- developing the backoffice of robograf technologies: Laravel, MySQL, ReactJs
- backend developer of a local social media platform technologies: Firebase, NodeJs, expressJs
- full stack developer of an application for designing custom mugs and t-shirts for a heat press machine

technologies: MongoDB, NodeJs, expressJs, Angular