

Abderrahman Lahiaoui

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SUMMARY

“Research and development engineer, graduated from an engineering school, experience extends from IT consulting to research, relevant technical skills as well as communication skills working in positions involving marketing and public relations as well as traveling. Fast learner, excited to see new things, with a strong sense of commitment, fellowship and cheerfulness”

WORK EXPERIENCE

CURRENT, SINCE DEC 2018 (FT)

Institut National de Recherche en Informatique et en Automatique (INRIA) – Lille

Research and development engineer – Spirals

Current project aims to make formal verification of large complex software systems described with formal specification languages doable on a larger scale, by leveraging Grid5000 research infrastructure, making big SAT problems that are slow to solve locally, deployable remotely, with convenient result retrieval and reporting.

Project tasks involve: Restful api specs. A containerized server in Go that will do the reservation, configuration and deployment of clusters automatically using Docker Machine, Ansible and Kubernetes, also also monitor running jobs, send back and archive results in a Ceph storage cluster. Assemble the server with Nginx reverse proxy, and an internal VPN using Docker Compose. A java client integrated with MIT's Alloy Analyzer open-source tool. Experiments, scalability tests, Improvements based on collaboration and feedback from researchers.

MAY 2018 – NOV 2018 (FT)

INRIA – Lille

Intern for Graduation Project – Spirals

As part of the spirals team, –particularly interested in introducing more automation in the adaptation mechanisms of software systems– I worked on a project focused on cloud storage, more specifically on load balancing and data replication aspects. The emphasis was on practical outcomes concerning data popularity, network traffic and available resources, and how they could be the deciding factors to route requests, or to know when, what data to replicate, and where to place replicas to ensure data availability and optimize resource usage.

JUL 2017 – SEP 2017 (FT)

Algo Consulting group

Summer internship

First experience in a professional environment. I worked on a customer survey mobile application. I was given 3 days to acquire basics of .NET, Xamarin.Forms and make a first prototype of the app, which I did and became part of the production team.

Tasks involved writing logic and UI using C# and XAML, plus fixing bugs, participating in meetings, applying changes based on clients feedback after each sprint, using Microsoft Azure to host production databases and deploy services, testing and delivering the application continuously (Mystery Shopper)

EDUCATION

2013 – 2018 **Engineer degree**

SOFTWARE ENGINEERING

National School of Applied Sciences

2012 **baccalaureate**

Department of Math

Rahaly El Farouq High school

TECHNICAL SKILLS

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|----------------|---|
| FULL-STACK | Spring boot, Vue.js, bootstrap |
| DEVOPS | Docker, Kubernetes, Ansible maven, jenkins, gradle git, github, gitlab-ci, Azure Devops |
| LANGUAGES | Java, Sql, c/c++ Golang, Python, c# html5, css, PHP, JavaScript |
| OS | Debian, CentOS, Arch Windows, OS X |
| DB | PostgreSQL, Oracle, Mysql |
| CERTIFICATIONS | Test driven development using python, pytest, and mock |

COMMUNICATION SKILLS

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|-----------|--|
| TALKS | More Intelligent Web 3.0 Microservices and OOP principles |
| WORKSHOPS | .Net intro The Blockchain |
| LANGUAGES | Arabic French English |

PERSONAL ATTRIBUTES

Goal Oriented

I believe in action over long-winded discussions, listen to everyone's viewpoints then draw a judgment based on reached consensus to immediately act and achieve goals quickly and efficiently.

Passionate

I have been interested in computer sciences from an early age. Academic and professional experiences have cemented this interest into a passion. I greatly enjoy carrying out fundamental and technical aspects in IT with practical and useful applications.