

# Labouardy. Mohamed

LEAD DEVOPS ENGINEER/DEVELOPER EVANGELIST/OSS CONTRIBUTOR

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“What you do today can improve all your tomorrows.”

## Experience

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### Foxintelligence

Paris, France

LEAD DEVOPS ENGINEER

Mar. 2018 - Present

- Architected the infrastructure to comply with the european law (GDPR)
- Built a Serverless Crawling solution with ability to crawl millions of Ecommerce pages per day (Amazon, Ebay, Fnac, etc)
- Managing cloud infrastructure with a monthly budget of 120K\$ (+1.8M\$)
- Setup AWS multiple account billing strategy (billing, sandbox, staging and production accounts)
- Designed Hybrid Cloud Infrastructure (AWS and GCP)
- Designed Foxintelligence new core products based on Serverless Architecture (80M+ Lambda invocations per day).
- Provisioning of multiple Docker Swarm clusters to run +30000 containers in production
- Built a CI/CD platform for learning & training of machine learning models in AWS
- Deployed Machine Learning models on AWS based publisher/consumer architecture.
- Designed an AWS scalable and self-healing infrastructure with Terraform to maintain heavy workloads of 5 million users
- Maintaining multiple ELK clusters with over 1Tb throughput of logs per day
- Built a centralized monitoring system with Telegraf, InfluxDB & Grafana
- Setup ETL pipelines with Data Pipeline, BigQuery, GCS and S3
- Setup an IPSec VPN access and encryption policies of data in transit and at rest
- Managed multiple MongoDB clusters on Mongo Atlas and AWS DocumentDB
- Built CI/CD pipelines for iOS, Mobile, Dockerized Microservices, Serverless Functions, Machine Learning models, etc

### InterCloud

Paris, France

SOFTWARE ENGINEER

Oct. 2016 - Mar. 2018

- Built API & Console to provision connectivity services to Cloud Service Providers as AWS, Azure, GCP, OVH ...
- Designed & Implemented a highly available, distributed & fault tolerant system to monitor PoP (Latency, Jitter, Packets Loss, Availability).
- Presented training sessions about CI/CD & Kubernetes

### Capgemini

Bordeaux, France

SOFTWARE ENGINEER INTERN

Apr. 2016 - Sept. 2016

- Developed front-end and back-end of CCVRP's web service.
- Implemented IoT (Internet of Things) Healthcare application for Hacking Health Camps (AquitHealth, Bordeaux I/O, VivaTech).
- Provided training sessions about Continuous Integration with Docker for a group of Software Engineers.
- Developed an Android application to visualize resumes for Pôle Emploi Department.

### Capgemini

Bordeaux, France

SOFTWARE ENGINEER INTERN

Jun. 2015 - Aug. 2015

- Developed features and components for CCVRP's corporate website, to serve fast pages to more than 2 million unique visitors per year.
- Being part of the first team in France to run Docker in production.
- Developed Spring and Android apps at the Innovation Department of Capgemini.

### CNESTEN (National Center for Energy Sciences and Nuclear Techniques)

Rabat, Morocco

SOFTWARE ENGINEER INTERN

Feb. 2014 - Jul. 2014

- Developed cross-platform application to help researchers in solving complex atom equations using Monte Carlo method.

## Certifications

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### AWS Certified Solution Architect

MAR. 2018 - 2020

## AWS Certified DevOps Engineer

MAR. 2018 - 2020

## AWS Certified Developer

MAR. 2018 - 2020

## AWS Certified SysOps Engineer

MAR. 2018 - 2020

## Professional Scrum Master I

MAR. 2018 - 2020

## Projects

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<b>Komiser</b>	Cloud cost optimization tool with 2200+ stars on GitHub and 75K+ downloads.
<b>Butler</b>	Jenkins CLI to import/export plugins, jobs & nodes.
<b>Swawgymnia</b>	Generate Swagger documentation for your existing API.
<b>Nexus CLI</b>	CLI to cleanup old, unused & dangling Docker images from Nexus registry.
<b>DockerSwarm UI</b>	Web UI to manage Swarm clusters and private Docker registries, +50K pull on Docker Hub.
<b>DialogFlow</b>	Go library for DialogFlow (formerly known as API.AI).
<b>Open Source Contributions</b>	Jenkins, Telegraf, Docker, Nexus, Icinga2, etc.

## Skills

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<b>Programming</b>	Go, Node.JS, Java, Python, Bash, Spring Boot/Cloud
<b>Cloud Providers</b>	AWS, GCP and OVH
<b>Web Development</b>	Angular 1.x/5, MEAN Stack, LAMP Stack, CMS(Wordpress, Drupal)
<b>Deployment</b>	Docker, Kubernetes, Swarm Mode, Vagrant, VSphere, Heroku, Serverless, SAM
<b>CI/Automation</b>	Terraform, Packer, Jenkins, Travis CI, Circle CI, Ansible, Chef with OpsWorks
<b>Serverless</b>	Lambda, API Gateway, OpenFaaS, Cognito
<b>AWS</b>	S3, EC2, VPC, DynamoDB, RDS, IAM, EFS, Route53, CloudFront, SQS, SNS, CloudFormation, etc
<b>Load Balancer</b>	HaProxy, Nginx, ELB/ALB, Apache, Traefik, Kong
<b>Monitoring/Logging</b>	ELK, Telegraf, Collectd, Grafana, CloudWatch, StatsD, Icinga2, New Relic, Nagios, Datadog
<b>Service Discovery</b>	Consul, etcd
<b>Artifact Management Solution</b>	Nexus, Artifactory, Google Registry, ECR
<b>SCM</b>	Git, SVN, Github, Gitlab, Bitbucket
<b>Build Tools</b>	Gulp, Maven, Gradle, Webpack
<b>Databases/Message Broker</b>	MySQL, MongoDB, PostgreSQL, H2, InfluxDB, Redis, RabbitMQ, DocumentDB, DynamoDB
<b>Tests</b>	JUnit, PhantomJS, Selenium, Karma, Jasmine, Mocha, SonarQube
<b>Mobile</b>	Android
<b>ChatOps</b>	Slack, Messenger, API.AI, AWS Lex
<b>Agile</b>	Scrum, Jira, Confluence, Notion
<b>Languages</b>	English, French, Arabic

## Education

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### University of Bordeaux

MS. IN SOFTWARE ENGINEERING

- Advanced OOP, System Design, Agile project management, MEAN Stack, JEE, Fonctionnal Programming

*Bordeaux, France*

*Aug. 2014 - 2016*

### Mohamed V University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Algorithms, Data Structures, Complexiy Analysis, Compiler, OOP, Networking, OS, C/Java, Computer Architecture, UML

*Rabat, Morocco*

*Aug. 2013 - 2014*

## Publications

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## **Hands-On Serverless Applications with Go**

PACKT EDITOR

- Build real-world, production-ready applications with AWS Lambda

## **CI/CD for Cloud Native Applications**

MANNING

- Build CI/CD for Dockerized Microservices and Serverless Functions

## **Mastering AWS with Terraform**

PACKT EDITOR

- Real-World Terraform use cases to work and master AWS