

MOHAMED ZOUARI

Software Engineer | AWS Certified Developer

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SUMMARY

Forward-thinking Software Engineer with experience, working effectively in a dynamic multi-national enterprise environment. An AWS Certified Developer. I am currently trying to reshape some Cloud Software Development experiences, contributing to designing, maintaining, testing and implementing large-scale and distributed cloud-based projects.

TECHNICAL SKILLS

Programming Languages:	Python, Java, Javascript, C/C++.
Cloud Providers:	AWS.
Databases:	SQL, MongoDB, PostgreSQL, Oracle.
Operating Systems:	Unix/Linux, Windows.
Automation Tools:	Terraform, Jenkins, SaltStack, Ansible, Vagrant, Gitlab CI/CD
Software Design & Methodologies:	Web Services, REST, MVC, MVP, Testing, Agile, KANBAN, SCRUM, TDD.

EXPERIENCE

SAP	<i>Jul 2022 – Present</i>
<i>Software Development Engineer</i>	
Infor	<i>Sep 2020 – Jul 2022</i>
<i>Software Development Engineer</i>	
<ul style="list-style-type: none">Contributed to the design and the implementation of a (Python) CLI utility to manage and generate automatically the deployment workflows as a layer on top of an internal deployment tool:<ul style="list-style-type: none">Designed the new concept of workflow as collection of deployments and test actions associated with a specific AWS deployment environment.Implemented the CLI generation tool to use generic config files to create workflows in a customizable way.Added package process using a GitLab CI, to build and publish the project built artifact to an AWS S3 bucket.Created an update feature to get the latest shared version from the S3 bucket and promote it from CLI.Results: Improved the lifecycle of all the deployed products. The team reached a more efficient working cycle.Contributed in the enhancement and the creation of new features for internal platform that manages cloud environments :<ul style="list-style-type: none">Updated the API layer (Python Pyramid) and the task processing side (Celery, RabbitMQ, SQLAlchemy).Designed and Implemented the automation to deploy a new multi-tier project on a cloud-based infrastructure on top of the internal deployment tool :<ul style="list-style-type: none">Implemented SaltStack scripts to fully configure the remotely created compute nodes (CloudFormation).Reduced the deployment time by updating the used environments and automations :<ul style="list-style-type: none">Packaged the API codebase and the UI code and added the package process using a GitLab CI.Enhanced the automation (Salt) scripts to configure the freshly created cloud compute nodes (EC2 nodes).Results: Reduced the deployment time by 40%.Designed a new release of an internal platform for a multi-environment support and cross-account availability :<ul style="list-style-type: none">Designed and implemented an integration environment, refreshed from CI pipeline stages to redeploy the application servers and trigger a lambda function that refreshes the load balancer target groups.Designed and implemented a temporary feature testing environment to enable developer testing newly implemented features from a code branch.Exposed the platform via a custom endpoint service and AWS PrivateLink to other VPCs in external accounts.Results: Reduced the deployment time by 100% (Fully automated), and enabled cross accounts access.	
Integration Objects	<i>Feb 2020 – Jul 2020</i>
<i>Software Development Engineering Intern</i>	
<ul style="list-style-type: none">Designed and implemented a monitoring module for a distributed and large-scale industrial IoT platform:<ul style="list-style-type: none">Implemented a microservice to collect and manage remote exposed metrics, data, using scheduled jobs.	

SELECTED INDIVIDUAL PROJECTS (More projects available on my [portfolio website](#))

Lemhaf

Mar 2021 - Currently Maintaining

The first Tunisian services sharing online platform

- Created a full-stack web platform, to allow users find out services they need and to allow service providers to connect with the community :
 - Designed, and implemented a three-tier architecture for a cross-platform online sharing website.
 - Implemented a responsive front-end UI (ReactJS, Ant Design, Material Design).
 - Deployed a back-end server (NodeJS, ExpressJs), connected with a non relational database (MongoDB).
 - Used a distributed storage cloud solution to host media files.
 - Implemented an authentication and authorization component with email verification.
 - **Results:** Actually Running, with (860 users, and 1540 shared services).
 - *Actually working on an upgrade by adding a service recommendation engine based on services rating and user previous activities..*

EagleEye | [Github Repo](#) | [Demo](#)

April 2019

A real-time reputation monitoring platform

- Designed and implemented a real time solution for reputation tracking and monitoring on (Twitter) :
 - Implemented some back-end microservices using (Spring Cloud).
 - Implemented a sentiment analysis microservice (Python).
 - Implemented a stream processing module using Kafka as a message broker.
 - Integrated Elasticsearch to process the streams for real time monitoring on a dashboard (Kibana).
 - **Results:** Deployed the platform on AWS and tested it 3h before Tunisian Presidential Election results announcements to get a comparison of the reputation of the two candidates near the real results.

EDUCATION

National Engineering School of Tunis, Tunis, Tunisia

Sep 2017 - Jul 2020

M.Eng.CS, Software Engineering

Computer Science engineering degree with a major in Software Engineering.

Paris Descartes University, Paris, France

Sep 2019 - Oct 2020

M.Res, Computer Science

Master of research degree M2, Computer Science with a major in Signal Processing.

Preparatory Institute El Manar, Tunis, Tunisia

Sep 2015 - Jun 2017

B.Sc, Mathematics and Physics

Ranked among the top 5% nationwide in the national exam.

CERTIFICATIONS

AWS Certified Developer - Associate

[Credentials](#)

Dec 2021 - Dec 2024

Google IT Automation Professional Certificate [Credentials](#)

Oct 2020 - No Exp

EXTERNAL ACTIVITIES

IEEE

Sep 2017 - Present

Active Member

ENIT Arts club

Sep 2017 - 2020

Chairman of the board, Violinist

- Led a music band of engineering students as the violinist of the group, to participate in national musical events.