

# MOHAMED ZOUARI

## Software Engineer

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## SUMMARY

*Forward-thinking Software Engineer with experience, working effectively in a dynamic multi-national enterprise environment. An 2x AWS Certified {SAA-C03, DVA-C01}. 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

<b>Programming Languages:</b>	Python, Java, Javascript, C/C++.
<b>Cloud Providers:</b>	AWS.
<b>Databases:</b>	SQL, MongoDB, PostgreSQL, Oracle.
<b>Operating Systems:</b>	Unix/Linux, macOS.
<b>Automation Tools:</b>	Terraform, Jenkins, SaltStack, Ansible, Vagrant, Gitlab CI/CD.
<b>Monitoring and visualization applications:</b>	Dynatrace, Kibana.

## EXPERIENCE

### SAP

Jul 2022 – Present

#### Software Development Engineer

- Created a script that replicates Dynatrace environments across regions:
  - Designed and implemented a python script to automate the replication of Dynatrace environments across regions. Tested and validated the script to ensure consistent and reliable deployment.
  - **Results:** Reduced manual effort and increased the speed and reliability of environment replication.
- Implemented a data collector app that collects data from SAP HANA database and feeds it to Dynatrace for monitoring and created a dashboard on Dynatrace that consumes the collector data:
  - Worked with a team to design and implement a data collector app using Python and SQL.
  - Tested and validated the app, and collaborated with stakeholders to ensure data accuracy and relevance.
  - Implemented a dynatrace dashboard that monitor the collected data.
  - **Results:** Provided valuable insights into system performance and increased the effectiveness of monitoring.
- Designed and implemented a Jenkins Job to schedule regular refresh of SAP HANA monitoring collector apps..
  - Tested and validated the process to ensure reliable and consistent execution.
  - **Results:** Improved monitoring capabilities and increased the efficiency of monitoring processes.
- Enhanced several dashboards in Kibana:
  - Identified areas for improvement in existing dashboards and implemented changes to increase usability.
  - Developed new dashboards to provide actionable insights into key performance metrics.
  - **Results:** Improved overall visibility into system performance and provided key insights to stakeholders.
- Managed and enhanced Kibana monitors linked to third-party apps:
  - Reviewed existing monitors and updated as necessary to ensure alerts were actionable and relevant.
  - Created new monitors to track additional metrics and improve system monitoring.
  - **Results:** Increased the effectiveness of alerting and response to potential issues.x

### Infor

Sep 2020 – Jul 2022

#### Software Development Engineer

- 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:
  - 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 :
  - 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 :
  - Implemented SaltStack scripts to fully configure the remotely created compute nodes (CloudFormation).
- Reduced the deployment time by updating the used environments and automations :
  - 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 :
  - 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

Feb 2020 – Jul 2020

### Software Development Engineering Intern

- Designed and implemented a monitoring module for a distributed and large-scale industrial IoT platform:
  - Implemented a microservice to collect and manage remote exposed metrics, data, using scheduled jobs.

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

### Lemhaf

Mar 2021 - Present

#### A services sharing online platform

- Created a full-stack web platform, to allow users find out daily 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).
  - **Results:** Actually working on an upgrade to add a service recommendation engine using existing data.

## 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 Solutions Architect – Associate** [Credentials](#)

Feb 2023 - Feb 2026

**AWS Certified Developer – Associate** [Credentials](#)

Dec 2021 - Dec 2024

## EXTERNAL ACTIVITIES

**IEEE** *Active Member*

Sep 2017 - Present

**ENIT Arts club** *Chairman of the board, Violinist*

Sep 2017 - 2020

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