IQBAL AISSAOUI

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EDUCATION & CERTIFICATIONS

Oracle 2024
Oracle Certified Professional, Java SE 8 Programmer II Casablanca

Oracle 2019
Oracle Certified Associate, Java SE 8 Programmer Casablanca

International Academy of Civil Aviation 2012 – 2015
CS Engineering Diploma Nouaceur, Morocco

Mohamed V Preparatory Center 2010 – 2012
Preparatory Classes (MPSI) Casablanca

Mohamed V High School 2010
Baccalaureat SM-B Casablanca

PROFESSIONAL EXPERIENCE

Mindera 11/2022 – Present
Senior Backend Software Engineer Casablanca

- Senior Backend Software Developer for Avios Team, Avios is a loyalty program built for International Airline Group (IAG) The platform powers the loyalty membership life cycle including: enrollment, profile and identity management, recognition tier points, status and benefits and Avios currency transaction services.
- Led Discovery Spikes for Redis Implementation (Spring Boot + AWS Elasticache), boosting performance, lightning pressure on our API Supplier, and finally contributing to the resilience of the product
- Led SQS Implementation to complement Redis caching with event driven cache eviction (Spring AWS Cloud)
- Led Discovery Spikes for cost optimization(reduce EC2 over provisioning), resilience (Managed Draining), and efficiency(Implementing Task placement strategies) for AWS Elastic Container Service on EC2
- Introduced testing for Open Policy Agent with mocking, safe guarding against faulty authorization policies protecting gateway
- Decoupled OPA Authorization from Traefik Gateway, Splitting Services from Sidecar setup to standalone microservices, empowering gateway and authorization service to scale independently
- Led Discovery for Spring Cloud Config Server and Client Implementations, Thus reducing state held in IaC Terraform Repo by externalizing configuration
- Introduced testing for All these implementations (Embedded Redis, Embedded SQS Queues, simulation via TestContainers + localStack)
- Led Migration from Spring Boot 2.X to 3.X, rewriting Oauth2 and RestTemplate custom client to Webclient to query and authenticate with API Supplier
- Resolved bugs and participated in application maintenance
- Wrote various Confluence wikis documenting various complex issues encountered during development

- Introduced retry policies for WebClient to improve fault tolerance
- Developed Datadog monitors, dashboards, synthetic tests to enhance reactiveness and production observability
- Performance testing with Locust to simulate production deployments, investigate rolling update issues causing 503s, improving Infra
- Led investigation of ECS Cluster deployment issues, 503s related to DNS and CloudMap Service Discovery
- Built an end-to-end fraud-detection pipeline on AWS—ETL'ing S3 data with Glue, training and deploying an AWS Fraud Detector model, and serving real-time inferences with enriched feature fields via Python libraries

Technologies and methodologies:

- Scrum
- Java 8-21, Spring Boot 2/3, TestContainers, LocalStack, Mockito, Awaitility, Python
- AWS (IAM, EC2, ECS, SQS, SNS, Elasticache, CloudMap, Route53, S3, Fraud Detector, Glue)
- Datadog

SICPA SA

02/2021 – 10/2022

Java Microservices Developer

Casablanca

- Senior Developer for the SICPATRACE Legacy and Next Generation Solutions, a multi-tenant and distributed system that connects SICPA, Goverments and Manifacturers to track factories production
- Developed new features for Georgia's Sicpatrace implementation within a Scrum team
- Customized existing core features to respond to Georgia and Tanzania's needs
- Trained on Helm, Openshift, Apache Kafka, and Protobuf for the Next Gen product
- Participated and wrote Architecture Reviews to define proper solutions to existing issues
- Wrote architecture proposals for new solution implementations
- Resolved bugs and participated in application maintenance
- Wrote various Confluence wikis documenting various complex issues encountered during development

Technologies and methodologies:

- Scrum
- OpenJDK11, RxJava, Spring boot, Protobuf
- Jenkins, Helm, Openshift, Apache Kafka
- EJB3, JBOSS 6, Wildfly, JDK 6, AngularJS, JSF, Oracle DB, ...

ORANGE BUSINESS SERVICES

08/2020 – 02/2021

Software Engineer

Casablanca

- Scrum Master for the current release of CREOL, a presales application that offers insights on the best technologies Orange can offer the customer based on different criterias
- Developed new features within a Scrum team in Angular 8 and Java 8/Spring Boot
- Resolved bugs and participated in application maintenance
- Coached the team in agile practices

Technologies and methodologies:

- Scrum
- Java 7/8, Mockito, Junit 5, SonarQube, Angular 8, RxJS, Spring Framework, Spring Boot, Jira, Gitlab CI/CD

REMEFOX

11/2019 – 05/2020

Consultant — Utrecht

- Trained on the WSO2 stack, Implementing integration patterns with the ESB component through common sequences and mediators that enable you to implement various integration scenarios, including file-based and message-driven ones.
- Trained on OAuth2 federated identity with WSO2 API Manager and Identity server

Technologies and methodologies:

- Java 8 , WSO2 API Manager, WSO2 Identity Server, WSO2 ESB Linux, XML, Docker.

ATOS

04/2019 – 10/2020

Medior Software Engineer — Casablanca

- Designed & Developed home delivery feature for the Auchan Luxembourg E-Com platform
- Back end: Developed business logic Services: Manage packaging, delivery fees, time slots,
- Front end: Developed Apache Tapestry TML pages, Administration JSP pages.
- Resolved bugs and participated in application maintenance
- Integrated Gatling with Gitlab CI/CD and configured the pipeline
- Presented a demo for the team on GitLab CI/CD and Gatling CI

Technologies and methodologies:

- Scrum
- Java EE, Spring MVC, Gatling CI, Gitlab CI/CD, MySQL, Git, Jira, Shell, Apache Tapestry, Linux, Jira

LABVANTAGE

09/2015 – 03/2019

Solution Engineer — Casablanca

- Designed & developed a multitude of SOAP web service interfaces. The interfaces are developed in Java and implement several business rules required by laboratories in regard to sample management. The project covered the development of clients to manage input from SAP, WebMethods, and other middlewares, to process incoming messages, integrate them in the LIMS, and build responses either synchronously or asynchronously. Testing and mocking web services were performed by the SOAP-UI tool. I also wrote technical documentation for these interfaces.
- Extended standard LabVantage functionality to respond to customer needs in Java for the backend. JSP and JavaScript were used on the front-end. Developed features range from specific Java classes to handle new functionality for samples and batch management, file integration, UI configuration and development, scheduled tasks, SQL scripts to prepare for version upgrades. The implementation allows migrating sample data safely and take into consideration feature changes, persists previous business rules to the new version, and adapts to database schema changes. Provided 3rd Level support to customers to resolve bugs, debug performance issues, scheduling, and periodic task problems.

- Designed and developed “LIMS-BI”, an IBM Cognos Business Intelligence solution for the LabVantage LIMS. The aim of the project is to help Lab Admins and Lab Analysts generate Cognos reports independently by querying the Framework Manager’s model through simple drag and drop:Leverage IBM’s SOA Architecture by interfacing with the suite’s components (SOAP)

Technologies and methodologies:

- Waterfall & Agile, Java SE/EE, XML/XSD, JavaScript, Jersey, Groovy, JAXWS, Apache Axis 1/2, Soap-UI, Apache Commons, Apache Lang, dom4j, Oracle DB 12c. LabVantage Java APIs, jQuery, Simple XML, MS SQL Server, IBM Cognos SDK, Cognos Framework Manager SDK, Cognos BI Bus Web Services, JSP, Jackson