

JOÃO MOREIRA

Software Engineer

SKILLS

Java	13+ yrs
Spring	7+ yrs
Linux	13+ yrs
Kubernetes	7+ yrs
Google Cloud	5+ yrs
Scrum	9+ yrs
MongoDB	7+ yrs
SQL	11+ yrs
Maven	13+ yrs
GIT	11+ yrs

CONTACT

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PROFILE

Software engineer with 13 years of experience in the industry. Passionate about building robust, scalable software with Java and Spring. I leverage modern technologies to solve complex problems and deliver high-quality systems from initial architecture to production and long-term maintenance. I'm driven by clean code, strong engineering principles, and continuous improvement.

I guide the team through sound technical decisions, promote a culture of clean, maintainable code, and ensure we deliver solutions built on the right technologies. I foster knowledge sharing, uphold engineering standards, and make sure every part of the software is supported by accurate and useful documentation.

Enthusiastic about agile practices, especially Scrum.

WORK EXPERIENCE

Tech Lead — Oct 25 - Present
Mastercard

Build an API to fill a gap in the Agentic Pay ecosystem by capturing user intentions and enabling merchants to identify users who are likely to make a purchase.

- Orchestration services and Platform services
- API-first design

Technologies include:

- Spring Boot, Spring Data JPA, Spring Web, Spring Cloud Config Server
- Oracle, Redis, Liquibase
- OpenAPI, Karate
- Docker Compose, Cloud Foundry
- Git, Gradle, JIRA, Bitbucket, Jenkins

Achievements include:

- Successfully collaborated with the Product Owner to deliver product features
- Guided technical decisions, architecture and design, aligning with other architects

SOCIAL MEDIA

https://joaomoreira.site

https://linkedin.com/in/joao-moreira-java

https://github.com/moreirajo

EDUCATION

2011 - 2013

M. Sc. Electrical and Computer Engineering.
Universidade Nova de Lisboa

Master studies were focused on the areas of Robotics, Systems (control and automation) and Digital Systems.
The name of the master thesis was "Análise de Desempenho de Anéis de Controlo Baseado em PCA". It was a study that used several techniques combined to identify faults in a water tank system.

2007 - 2011

B. Sc. Electrical and Computer Engineering.
Universidade Nova de Lisboa

The bachelor's degree introduced theoretical and practical knowledge in 6 areas of Electrical and Computer Engineering. Namely, Systems (control and automation), Electronic, Energy, Robotics, Digital Systems and Telecommunications.

- Led a large team of developers by ensuring technical tasks are properly broken down
- Ensured the scalability, quality and resilience
- Build new SD-JWT technology tailored for agentic commerce

DevOps/Tech Lead May 25 - Aug 25
Signicat

Developed and maintained ID Document and Biometric Verification solutions integrating with multiple eIDV providers.

- A hub that facilitates integration with several eIDV providers
- Develop eIDV solution that read document photos taken by the users
- REST API
- Authorizations based on permissions validated by OPA
- Infrastructure as code
- Expose metrics to Prometheus and triggering alerts on alert manager integrating with Slack and Opsgenie

Technologies include:

- Spring Boot, Spring Data JPA, Spring Web, Spring Cloud Config Server
- MySQL, MongoDB
- Open Policy Agent, OpenAPI
- GKE, Google KMS, Google Secret Manager, Google PubSub
- K8s, Docker Compose, Helm, Terraform
- Git, Maven, JIRA, GitLab CI/CD, Sonar

Achievements include:

- Successfully collaborated with the Product Owner to deliver product features
- Guided technical decisions, architecture and design and aligning with other architects
- Contributed with a DevOps mindset in a security-conscious environment
- Ensured the scalability and quality of existing systems

DevOps/Lead developer Jun 23 - May 25
Signicat

Re-design a certificate management service tailored for company platform from scratch.

- Storing of certificates and private keys
- CSRs generation
- REST API

CERTIFICATIONS

Google Cloud Certified Professional Cloud Architect

Google
2024 Jul

Cloud architect using GCP solutions.

Professional Scrum Master I

scrum.org
2018 Dec

Qualified to do Scrum Master role tasks.

Oracle Certified Professional - Java SE 7 Programmer

Oracle
2015 Jul

Certification to prove abilities in Java 7. Licence 2367420720CPJSE7.

Oracle Certified Associate - Java SE 7 Programmer

Oracle
2015 Jan

Certification to prove abilities in Java 7. Licence 236742072OCAJSE7.



- Authorizations based on permissions validated by OPA
- Infrastructure as code
- Expose metrics to Prometheus and triggering alerts on alert manager integrating with Slack and Opsgenie

Technologies include:

- Spring Boot, Spring Data JPA, Spring Web
- PostgreSQL
- Open Policy Agent, OpenAPI
- GKE, Google KMS, Google Secret Manager, Google PubSub
- K8s, Docker Compose, Helm, Terraform
- Git, Maven, JIRA, GitLab CI/CD, Sonar

Achievements include:

- Design and implement a new REST API
- API-first design using OpenAPI
- Securely store and transmit private keys implementing cryptography algorithms
- Solid documentation facilitating integration, hosted in GitLab Pages and written in markdown using MkDocs

DevOps/Lead developer Nov 22 - Jun 23
Signicat

Took over a certificate management service developed by other team using Quarkus framework.

- Storing of certificates and private keys
- CSRs generation
- REST API
- Authorizations based on permissions validated by OPA
- Infrastructure as code
- Expose metrics to Prometheus and triggering alerts on alert manager integrating with Slack and Opsgenie

Technologies include:

- Quarkus
- PostgreSQL
- Open Policy Agent
- GKE, Google KMS, Google Secret Manager, Google PubSub, Redis
- K8s, Docker Compose, Helm, Terraform
- Git, Maven, JIRA, GitLab CI/CD

TRAININGS

DevSecOps Engineer (24h)

EC-Council
2023 Nov

E|CDE is a lab-intensive program with over 70% of the curriculum dedicated to labs. It covers both application and infrastructure DevSecOps in on-premises and cloud-native platforms. Focuses on integrating security in the plan, code, build, test, deploy, release, operate and monitor stages of the DevOps lifecycle.

Practical TLS and PKI (14h)

Feisty Duck
2019 Nov

The course goes through everything you need to know to deploy secure servers and design secure web applications. The training is based on our Bulletproof TLS and PKI book, with a series of lectures and exercises designed to give you a hands-on experience.

Others

In the field of IT consultancy it's frequent companies that give their consultants trainings in that regard. I did some trainings in basic consulting skills development (24h), leadership of people and teams (20h) and advanced project management (24h) to name a few.

Achievements include:

- Develop, implement and execute a migration from all the data from old database to a new one
- Expose certificate metrics using Prometheus and created a Grafana dashboard to expose certificates about to expire
- Expand CSR generation to support almost all DN
- Design and implemented several improvements to code base

DevOps/Lead developer May 21 - Nov 22
Signicat

Responsible for designing and developing a Global Configuration System to be used as a core service in the new company technological platform.

- Based on JSON Schema
- Event-driven architecture
- API available both in REST and gRPC
- Authorizations based on permissions validated by OPA
- Infrastructure as code
- Expose metrics to Prometheus and triggering alerts on alert manager integrating with Slack and Opsgenie

Technologies include:

- Spring Boot, Spring Cloud Sleuth, Spring Security, WebFlux
- MongoDB Atlas, Redis
- Open Policy Agent, OpenAPI, gRPC
- GKE, Google KMS, Google PubSub
- K8s, Docker Compose, Helm, Terraform, Swagger
- Git, Maven, JIRA, GitLab CI/CD, Sonar

Achievements include:

- Generic configuration system able to handle company demands
- Java client to communicate with the API using gRPC and with a cache updated on demand using streams
- Solid documentation facilitating integration, hosted in GitLab Pages and written in markdown using MkDocs

Developer/Scrum Master/Tech Lead Oct 19 - May 21
Signicat

Design and develop from scratch a solution to automate certificates issue and renewal using ACME protocol.

- Microservice architecture
- Store and validate certificates

ONLINE COURSES

Vue Masterclass (43h)

Udemy
2024 Feb

Complete course covering Vue 2 and 3, Pinia, TypeScript, TailwindCSS, Vitest, and more.

MongoDB - The Complete Developer's Guide (18h)

Udemy
2023 Sep

Master MongoDB Development for Web & Mobile Apps. CRUD Operations, Indexes, Aggregation Framework - All about MongoDB.

Docker & Kubernetes: The Practical Guide (24h)

Udemy
2023 Apr

Learn Docker, Docker Compose, Multi-Container Projects, Deployment and all about Kubernetes from the ground up.

JavaScript ES6 & Angular 7

Affinity consultant
2019 May

Learn JavaScript ES6 and Angular 7 with theory and practical exercises.

- Generate Certificate Signing Requests
- Automatic renewal using ACME protocol

Technologies include:

- Spring Boot, Spring Security, WebFlux
- MongoDB, HashiCorp Vault
- AWS, RabbitMQ
- K8s, Docker Compose, Helm, Swagger
- Git, Maven, JIRA, GitLab CI/CD, Jenkins, Sonar

Achievements include:

- REST API for managing certificates and csr
- Issue and renewal using Let's Encrypt or Buypass

Developer Jun 19 - Sep 19
SLIB

Development and delivery of framework to apply confidentiality and also maker checker in company projects.

- Build backend with REST API to allow decision on what a user can see
- Build frontend to manage confidentiality
- Apply maker checker in the frontend

Technologies include:

- Java EE, JBoss, Swagger
- PostgreSQL, myBatis, Flyway
- Protractor, TypeScript
- XL Deploy
- Git, Maven, JIRA, Bitbucket, Jenkins

Achievements include:

- Make available a framework that handles confidentiality for others to use
- Let the user configure their confidentiality needs through a nice and intuitive UI
- Changes made in the UI were only effective when other person approve them

Developer Nov 17 - Jun 19
SLIB

Development and delivery of a new risk-monitoring software tool based on a legacy project

- Develop a new risk monitoring tool more generic

LANGUAGES

Portuguese (native)

English (advanced)

Spanish (intermediate)

- Frontend to interact with the tool
- Develop connectors to convert different market trade formats to a common one

Technologies include:

- Java EE, JBoss, GWT, ActiveMQ
- Oracle, JPA, Flyway
- XL Deploy
- Git, Maven, JIRA, Bitbucket, Jenkins

Achievements include:

- Software with a very good performance
- Nice and friendly UI
- Integration with several markets in all continents
- Software generic enough to be used by any Clearing House in the market

Developer Aug 17 - Nov 17

IP Telecom

Development of a billing and rating platform, from scratch to replace Excel spreadsheets used by IP Telecom.

- Build calls rating mechanism
- Build billing platform

Technologies include:

- Spring, jBilling
- PostgreSQL, Hibernate
- Git, Gradle, Docker

Achievements include:

- Successfully implemented a complex rating mechanism
- IP Telecom successfully moved from manual Excel-based processes to an automated system

Developer/Oncall May 14 - Aug 17

SIBS

Backend developer for a multiservice platform with focus on services backing the biggest Portuguese mobile payment app called MB Way.

- Build multi service platform
- Build a communication Gateway to send out emails, sms and mobile push notifications

- Build a backoffice for the multi service platform
- Production maintenance and oncall duties

Technologies include:

- Java EE, EJB, IBM WebSphere
- Web services, SOAP
- TIBCO, JMS, JSF/JSP
- DB2, JPA
- Git, Harvest, Maven, JIRA, Bitbucket

Achievements include:

- Portuguese most used payment mobile app
- Communication Gateway used in 3D Secure and MBCODE
- Nice and friendly Backoffice
- Quick response to production incidents

Developer Feb 14 - May 14
Vodafone Hungary

Development of a CRM system.

- Build a CRM based on a pre-existing framework

Technologies include:

- Java EE, JBoss, GWT
- WebMethods, SOAP, REST
- Oracle DB, Hibernate
- Git, Maven

Achievements include:

- Company moved some manual processes using Excel to use an automated system
- Successfully created a mechanism to handle complex client hierarchy and products

Software Performance Engineer Oct 13 - Feb 14
iTSCOM

Responsible for improving a CRM system performance according to the client KPIs, development of automated tests including load tests.

- Detect and improve slow call to the server
- Create automated tests

- Create load tests
- Meet client KPIs

Technologies include:

- Java EE, JBoss, GWT
- JMeter, JUnit, Selenium
- Oracle, Hibernate
- SVN, Maven

Achievements include:

- Faster CRM system, thereby improving the user experience
- Achieved all client KPIs