

Michele Caci's Resume

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Work experience

Amadeus IT Group, Sophia-Antipolis, France

Go and Kubernetes/Openshift DevOps and Software Engineer Since 2020/07

Writing Middleware tools in Go to assist other teams in Amadeus migrating their applications to a cloud environment. These tools' main goal is to bridging the current Amadeus infrastructure with the cloud one.

Frontend and Backend Software engineer working on the delivery and maintenance of feeds and reporting tools provided with the Airline Revenue Accounting product 2017/04 - 2020/06

- Reprocess UI project: creation of an Angular frontend for the ticket reprocessing backend and its C++ Endpoint with an internal library called Jaffar
- DOT report project: creation of a statistical report for the airlines who transit inside the US to deliver to the US Department of Transportation
 - leveraging the existing query framework and the Hadoop datawarehouse for retrieving the appropriate data
 - creation of new backends in C++ for query scheduling, batch data imports and result post-processing
 - creation of new SQL-like operators for query framework that uses the Scala Spark API to retrieve data from Hadoop

Senior Java Software engineer working in the Corporate IT eCommerce travel products, Amadeus eTravelManagement and Cytric Travel & Expense 2015/04 - 2017/04

- Development and maintenance of the modules of availability of hotel and car rental, policies, trip approval and arranging for the Java frontend of Amadeus eTravelManagement and of Cytric Travel & Expense products in Java/J2EE with the support of Sonar quality reports.
- Projects and other highlights:
 - Smartbiz: Innovation project created during Hackathon event with the goal of foreseeing air ticket prices based on past ticket values and time periods

- Door2door project: developed a framework to integrate door2door and last mile searches in Amadeus eTravelManagement
- Acting team manager: managing team of 5 to 7 people and interviewing new candidates from September 2015 to April 2016
- Intern mentoring: managing and mentoring an intern assigned to integrate and extend door2door functionalities on our Amadeus products from June to December 2016
- Animating team meetings with technical news, Java icebreakers and reviews of team code quality status and axis of improvements

S.I.I. Société pour l'Informatique Industrielle, Sophia-Antipolis, France

Contractor for Amadeus IT Group; Java Software engineer working in the Corporate IT eCommerce travel products 2012/02 - 2015/03

- Development and maintenance of the modules of availability of hotel and car rental, policies, trip approval and arranging for the Java frontend of Amadeus eTravelManagement in Java/J2EE with the support of Sonar quality reports.
- Projects and other highlights:
 - Assisting the air shopping teams for a technical project of code componentization in April 2014 and for the backend integration of last miles availabilities in March 2015
 - Animating team meetings with technical news, Java icebreakers and reviews of team code quality status and axis of improvements

DigitPA, Rome, Italy

Internship and Master Thesis 2011/05 - 2012/01

Intern assigned at the *Italia.gov.it* project, a Java search engine for the public administration. Focus on the retrieval of data from multiple relational data sources from the public administration via an Ontology-Based Data Access approach. The object of this work was then developed in my Master's Thesis and defended via a JSP-based web application JSPs created for demonstration purposes.

University of Illinois at Chicago, Chicago, IL

2010/08 - 2011/03

Research Engineer in the Ontology Matching field for the development in Java of new algorithms for the Ontology Matching system *AgreementMaker*.

Education

Master in Computer Engineering, University of Rome “La Sapienza”, Rome, Italy

2008/11 - 2012/01

Specialization in *Software and Services for Information Society*

Grade: *108/110*

Bachelor in Computer Engineering, University of Palermo, Palermo, Italy

2005/09 - 2008/11

Grade: *108/110*

Technical Experience

Personal projects

mcaci/briscola-serv, Services for operations related to briscola game

2020/01

- Code extracted from mcaci/msdb5 with the goal of creating a microservice with endpoints for card point information, points counting and card comparison briscola operations.
- Server accepting messages via HTTP and/or gRPC protocols.
- Practice repository for microservices creation, learning the go-kit library and loading and running microservices on docker and on kubernetes with minikube.

mcaci/ita-cards, Go library providing creation and management of for any type of Italian 40-cards decks

2019/09 - 2019/12

- Code extracted from mcaci/msdb5 with the goal of having a single repository for Italian cards adapted to any game
- Practice repository for Go modules

mcaci/msdb5, Go implementation of the card game “*Briscola chiamata*”

Since 09/2018

- Design following the hexagonal architecture
- Channels to orchestrate all the requests coming from the different players
- Simple HTML/JS UI present for testing and playing

- Practise repository for Docker containerization and execution on Kubernetes with minikube

TheSheldonChallenge, Rock-Paper-Scissors game implemented both in Java for PC and Android for Mobile

2011/07 - 2014/12

- Java implementation uses Java Swing for GUI, XML parsers to read game configuration files
- Android implementation uses of appropriate Android tools to manage UI, preferences and message handling; Supported versions of Android: version 2.2+
- Both implementation benefit from the inheritance of code that provides the core data structures and mechanisms: e.g. Thread synchronization to handle the game loop and other in-game mechanisms, junit4 for testing and eclemma for code coverage analysis

Contributions to Open Source

tensorflow/docs-l10n, TensorFlow documentation translation

Since 2019/10

- Current translator and maintainer of the Italian translation of the TensorFlow documentation made of Markdown and Jupyter Notebook files
- Review for the Italian translations made via pull requests by other contributors

exercism/go, Exercism exercise track for learning Go

Since 2019/10

- Go repository for the exercises proposed on the Go track of the Exercism platform
- Maintainer for this repository during free time

Programming Languages and Technologies

Go

- 2 years experience, first as self-taught language via autonomous study and exercism exercises and then experience on the job
- Practise with sequential and concurrent programming via channels
- Practising logging and unit testing with Go's standard library
- Participating to Go conferences such as DotGo 2019

Docker and Kubernetes

- 1 year experience of container creation, management via docker

- 1 year experience of container orchestration with *Minikube* and *Openshift*

C++

- 2 years experience on C++ development focusing on backend applications and unit testing using the *Google Test* framework

Java

- 7 years+ of experience on Java frontend and backends and on JUnit4 testing
- Certifications taken:
 - Oracle Certified Associate Java SE 7 Programmer in December 2013
 - Oracle Certified Professional Java SE 7 Programmer insince July 2014
 - Oracle Certified Professional, Java SE 8 Programmer in April 2017

Basic knowledge of Shell scripting, Scala, SQL, MongoDB, Hadoop and Python

Other

- **Activities**
 - Participant of RivieraDEV conference in 2018
 - Joined the organizing team of RivieraDEV since the 2019 edition
 - * Participating to the team's decisions during the event organization
 - * Support during the conference days
- **Human Languages**
 - Native in Italian
 - Proficient in English and French
 - Conversational in Portuguese
 - Beginner in Japanese and Spanish
- **Methodolgies**
 - Scrum developer practitioner with Scrum Master certification
 - SAFe practitioner with *Certified SAFe 5 Practitioner* certification taken in August 2020