
Tiago de Souza Oliveira

Prague, Czech Republic

+420 773 029 236 | ti.olive@gmail.com | <https://www.linkedin.com/in/tiagooliveira> | @tiagooliveira

SUMMARY

Ambitious and well-accomplished professional with 15 years of experience in IT Industry, working as a Software Engineer, Project Leader, Solution/BigData/Enterprise Architect by an innovative-strategic, hands-on way.

Became a Data Scientist after 2 years of deep study and PoC's executed over methods and technologies involved in, and experienced an Immersive (bootcamp) 3 months Data Science training program in Berlin – where I could explore in my final project some techniques in RNN, ARIMA, Graph Grammar, Structured Prediction and some technologies specially Neo4J, Python, Spark-Scala, Akka-Scala and TensorFlow.

Passionate Technologist and hard practitioner of methodologies that support the performance and quality of my delivery like ATAM, TOGAF, Enterprise Integration Patterns, SOLID, DevOps and Scrum.

IT & Data Science SKILLS

- **Data Scientist**
Keras, TensorFlow/CUDA, ScikitLearn, Spark DL4J, Jupyter/Zeppelin Notebook, R, Python(Numpy, Pandas, Scipy, Seaborn, Matplotlib)
- **Solution Architect**
Data Intense Architecture/Lambda, Cloud Design Patterns, Event-Driven Architecture, Microservices, EIP, ATAM, TOGAF, PMBoK
- **Software Engineer/Architect**
C#, NodeJS, (Spark, Akka)/Scala, Python, Clojure, GraphQL, Azure platform, Neo4J Database, Cassandra, SQL Server, MongoDB, Redis, Kafka, Docker, Kubernetes, SOLID Principles, DevOps, Scrum

Code: <https://github.com/tiagooliveira>

PROFESSIONAL EXPERIENCE

Manufacturing, Foxconn (Czech Republic) - Solution Architect, 2018/Apr - 2018/Oct

Solution Designing

- New print label solution for assembly line. Replacing a workstation processing for an clustered-distributed architecture

Cosmetics, Natura (Brazil) - Bigdata Solution Architect/Enterprise Architect, 2017/Feb - 2018/Feb

Solution Designing

- Bigdata/Lambda Architecture solutions in Hortonworks/HDInsight/Azure (Spark-Scala, Cassandra, Kafka, Redis, NodeJS, Talend) to support a platform for revitalizing the new commercial structure
- Corporate MOOC (Massive Open Online Courses) – integrated with a LMS and the Comercial Structure platform to support the new strategy in knowledge content among the 1M5 vendors across Latam countries

Architecture Governance

- Development of architectural standards and Guidelines, active participant of the Roadmap Technology Committee
- Member of the deliberative Architecture Forum – responsible for ensuring quality and architectural standards of the solutions

Proof of Concepts

- Leading tech team and making PoC's in some platform components (Spark/Scala, Kafka/Confluent, Cassandra, Docker/Kubernetes, NodeJS, Bitbucket, Jenkins, MongoDB, Redis) in order to ensure the best approach for implementation

Software Selection

- Cloud Platform Selection and Solution Designing to support a new BigData platform to the R&D area for storage data by streaming ingestion and GPU processing for GROMACS and others ML models
- Support Analytics Area in the selection process of a product stack responsible for provide Near-Realtime Reports and Self Service Reports in a multicloud environment (AWS, Azure, OnPremise)

Diagnostic Medicine, Grupo Fleury (Brazil) - System/Solution Architect, 2014/Mar - 2017/Feb

Solution Designing

- Realtime Capturing Ultrasound of Fetal Medicine Video and Livestreaming to the Web Site in order to reducing cost with recorder machines and innovate the process and patient experience
- Custom Complex Event Processing system (Lambda Approach) for integration between legacy systems and SAP to support near-realtime invoice
- Sharepoint Architecture for a Multi-Brand identities
- High Availability and Disaster Recovery of critical systems for Risk Management

Architecture Roadmap

- Strategy, solution architecture and execution as a Technical Leader the architecture of a Mobile Application Platform for diagnostics services

Proof of Concepts

- Microsoft Hololens for loading and manipulate 3D/DICOM images from PACS/RIS

- Remote printing with Thinprint solutions in order to simplify integrations among datacenter and new diagnose clinics
- Software Selection
- Elaboration and execution of PoC's for Monitoring APM products selection process with Dynatrace, AppDynamics and Microsoft SCOM APM

Solutions for Insurance Companies, CoreOn IT (Brazil) - Project Leader, 2013/Dec - 2014/Apr

Technical Project Management

- Management of the schedule, deliverables and coaching a distributed development team

Software Architecture

- Designing solution and software architecture of a Quotation System of Insurance (Zurich)

PayTV, Sky (Brazil) - Technical Leader, 2012/Feb - 2013/Sep

Technical Leader

- Elicitation with Software Factories. Estimating with Point Function Analysis
- Technical management of high complex projects developing and leading distributed tech teams
- Development in .Net C# (WCF, Windows Services, ASP .Net/Razor, Oracle, Informx, SQL Server)

Software Architecture

- Designing solutions in .Net platform, mostly in a Multi-Layer WCF's

→ 2003 to 2011 Professional Experiences

In the first moment of my carrer I experienced a couple of technologies and platforms like C# .Net (2.0, 4.5), ASP .Net MVC and Windows Form, Castle Project/Windsor/NHibernate, Windows Mobile, Delphi 7.0, Business Intelligence Architecture modeling (Ralph Kimball)/ Analysis Services, SQL Server, Oracle DB, COM+ and ASP III.

I am proud of my accomplishments in this period, where I worked in positions like Software Architect, Software Engineer, Data Engineer in a variety of industries like Human Ressources, Contact Center, Retail, Financial, Engineer and Marketing.

EDUCATION

- ❖ **Computer Science - Master Degree**, USP, Dec. 2017 (Pattern Recognition; Analysis of Algorithms and Data Structures)
- ❖ **Project Management (PMI-PMBok) - Master of Business Administration**, Fundação Getúlio Vargas, Oct. 2011
- ❖ **Information Systems - Bachelor Degree** IFSP, Jul. 2009
- ❖ **Telecommunications - Technician** IFSP, Jun. 2005
- ❖ **Information Technology - Technician**, CEETEPS, Jun. 2004

PUBLICATIONS

Grupo Fleury used the System Center Orchestrator to evolve its Systems Architecture Landscape

<https://www.microsofttech.com.br/grupo-fleury-utilizou-o-system-center-orchestrator-para-evoluir-seu-landscape-de-arquitetura-de-sistemas/>

ACHIEVEMENTS AND HONORS

1st Place - Hackathon Winner [Team: Volt Kraft] - Mar 2018 - ConnHack2018 SAP Berlin

Our stack: Neuron Network AI (LSTM, Clustering), BigData Streaming Processing (Lambda Architecture using Cassandra, Kafka, Spark-Scala Streaming, Neo4j, Flask, GraphQL, Redis, NGINX, Kubernetes and Docker).

XXVI [Journey of knowledge] - Nov 2016 - Grupo Fleury

This award was in recognition of the Web Crawler solution that I designed to reduce the average service time in obtaining authorization from health care companies.

This solution has brought more efficiency in the process of customer service and increased revenue for the company.

COURSES AND CERTIFICATIONS

- Data Science, Machine Learning and BigData Engineering (Bootcamp) - [Data Science Retreat/Berlin](#) (2018)
- Graph Data Modeling with Neo4j - Neo4j (2018)
- Big Data Microsoft HDInsight Environment - Remay, Microsoft (2017)
- Essential Corporate Architecture (TOGAF) - Gnosis (2017)
- Developing Windows Azure and Web Service - B&F (2015)

LANGUAGES

- Portuguese - Native
- English - Professional Working Proficiency
- Spanish - Professional Working Proficiency
- French - Elementary Proficiency

ASSOCIATIONS

- Association for Computing Machinery (ACM) - Professional Membership