

# Andrey A. Masiero

FULL STACK DEVELOPER · RESEARCHER · PROFESSOR

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*“Must be the change that you want to see in the world.”*

## Summary

Proactive. I have 15 years of experience in software development with Java, JavaScript and Python. Frameworks known: Spring, NodeJS, Flask, Django, React and Angular. Main projects are ATM product development for Santander Brasil, an interaction robot to help elderly people and a cognitive chatbot using IBM Cloud Service as Watson, Text to Speech, Speech to Text and Image Recognition. Front-end for Web and Mobile version.

## Education

### FEI University Center (Fundação Educacional Inaciana Pe. Sabóia de Medeiros)

Sao Bernardo do Campo, Sao Paulo, Brazil

PHD IN ELECTRICAL ENGINEERING FOCUS ON ARTIFICIAL INTELLIGENCE APPLIED ON AUTOMATION AND ROBOTICS

2013, Sep. - 2018, Apr.

- Fulltime Scholarship in CAPES/PROSUP (Brazilian Government).

### FEI University Center (Fundação Educacional Inaciana Pe. Sabóia de Medeiros)

Sao Bernardo do Campo, Sao Paulo, Brazil

MSC IN ELECTRICAL ENGINEERING FOCUS ON ARTIFICIAL INTELLIGENCE APPLIED ON AUTOMATION

2011, Mar. - 2013, Feb.

- Fulltime Scholarship in CNPq (Brazilian Government) working on FINEP project in public hospital called “Pesquisa e Estatística baseada em Acervo Digital de Prontuário Médico do Paciente em Telemedicina Centrada no Usuário” (in portuguese).

### FEI University Center (Fundação Educacional Inaciana Pe. Sabóia de Medeiros)

Sao Bernardo do Campo, Sao Paulo, Brazil

BACHELOR IN COMPUTER SCIENCE

2005, Aug. - 2009, Jul.

- Social Assistant Scholarship from University itself.

## Professional experiences

### Viator, TripAdvisor

Lisbon, Portugal

SOFTWARE ENGINEER

2021, Dec. - current

- Responsibilities: Develop and maintain features based on inspiration content to help the user choose the product based on travel's destination, support QA automation tests like unit, integration, and snapshot tests. Monitoring and supporting the production environment, following up AB tests for new or modified features, maintenance and optimizing the CI/CD and build process.
- Technologies: Back-end (Java, TypeScript, PHP), Front-end (React/TypeScript, Dust), Docker, Elasticsearch Stack (ELK stack), Apache Solr, Redis, PostgreSQL, MySQL, Jenkins, Gitlab CI/CD, K8s environment, and AWS Cloud Services.
- Projects: During this time in Viator I delivered two big projects from scratch. The first one is Viator's blog homepage (<https://www.viator.com/blog>). The other project delivered recently was the itinerary page for destinations. This project has interaction with Google maps and several page elements, an example can be found here: <https://www.viator.com/blog/San-Francisco/d651/3-Days-in-San-Francisco-for-Foodies/i96381>. Beyond that, I'm also one of the developers responsible for creating React components as part of Viator's Design System working along with the designer's team.

### Aubay Portugal

Lisbon, Portugal

SENIOR SOFTWARE ENGINEER

2021, Dec. - current

- Full stack software engineer in Viator, a sub brand of TripAdvisor.

## Freelancer

Remote

FULL-STACK SOFTWARE ENGINEER

2018, Jan. - current

### • Projects:

- Cognitive Chatbot using IBM Watson, Text to Speech, Speech to Text and Image Recognition for a movie theater company. It is able to find near theater, next movie, make orders, and FAQ. The chatbot has integration with a front-end component for company's website, Facebook Messenger, Telegram and Whatsapp. To integrate with Google Cloud Platform and IBM Cloud the back-end service was created using Spring Boot/Java. Front-end chat component was with React/TypeScript
- HR Onboarding System with React for front-end, back-end in Spring Boot/Java and Oracle as database
- Create a microservices architecture to split the monolithic system of a energy company. All the microservices were created using a DDD concept and developed with Spring Boot/Java. Most of databases using were relational like MySQL and PostgreSQL, however for some services where data are not structure was used MongoDB instance. The microservices were deployed into a K8s environment into a private cloud.
- Dashboard to monitoring financial indicators for a private bank. The data are consumed from a datalake into a Hadoop environment using Scala and Java.
- Customized architecture and coding training and workshops.

2021, Jan. - 2021, Jun.

2020, Aug. - 2020, Nov.

2019, Jul. - 2020, May.

2018, Dec. - 2019, Apr.

2018, Jan. - current

## FIAP

Sao Paulo, Sao Paulo, Brazil

PROFESSOR

2018, Apr. - 2021, Oct.

- Lectures about: Responsive Web Development using Java, JSP, JSF, JavaScript, HTML5, CSS3, Bootstrap, Servlet, React, JQuery e JQueryUI. Artificial Intelligence and Chatbots with Python. Microservices and SOA Architecture with Spring Boot. Hybrid Mobile Development with React Native.

## Metodista Univesity of Sao Paulo

Sao Bernardo do Campo, Sao Paulo, Brazil

PROFESSOR

2013, Aug. - 2020, Feb.

- Coordinator of Programming Contest based on Java and Python.
- Traditional and Online Learning Professor. Lectures about: Oriented Object Programming, Algorithms and Data Structure, Web Application Development, Distributed Systems, Graphic Computing (OpenGL/ WebGL), Design Patterns, Robotics and Artificial Intelligence, Computational Intelligence. Coordinator of study group for programming competition and digital games. Thesis Supervisor for undergraduate students and specialist students.
- Online Course Coordinator in System Analysis and Develop Tech.
- Mentor on Information System, Computing Engineering and Project Management courses.

## CPM Braxis Capgemini

Sao Paulo, Sao Paulo, Brazil

SYSTEM ANALYST

Abr. 2010 - Mar. 2011

- Responsibilities: Requirement Analysis, Application of RUP methodology on software documentation, Application of Scrum for project manager, UML diagrams, Team activities planning, Team schedule managing, Function point measuring.
- Technologies: Developed web application using C#.Net and ASP.NET MVC.
- Applying eXtreming Programming techniques, the team delivered control taxes system project 3 months earlier than expected.

## VOLANS

Sao Paulo, Sao Paulo, Brazil

SYSTEM ANALYST

2008, May. - 2010, Apr.

- Responsibilities: Outsourcing contractor inside Santander, responsible for managing meetings with stakeholders to analyze and develop ATM features like withdraw, loan and printing. Team Member of integration project between Santander and Real (ABN Amro) Banks.
- Technologies: Embedded systems using Java and C++, Windows DLL developed with COBOL and Visual Basic 6, front-end with JavaScript.
- Projects: Create a function to improve withdraw option on ATM. It lets the use in 35% faster on withdraw option.

## Rodobens Locação de Veículos

Sao Bernardo do Campo, Sao Paulo, Brazil

SYSTEM ANALYST

2008, Jan. - 2008, May.

- Optimization of process using BPMN.
- Member of Strategic Planning Committee.
- Develop and maintenance of system modules according to user requirements.

## A&M Sistemas

Sao Paulo, Sao Paulo, Brazil

DEVELOPER

2007, Mar. - 2008, Jan.

- Develop systems using Linux (Server/Dev), Cobol/VSAM, JavaScript, HTML/DHTML.
- Create a module to control truck tyres consume using AJAX client side and COBOL server side.
- Project Client: Rodobens Locação de Veículos.

## GOL Airlines

Sao Paulo, Sao Paulo, Brazil

SYSTEM AUDIT INTERN

2006, Jun. - 2007, Mar.

- Internal Control with Sarbanes-Oxley (SOX).
- IT Control with COBIT.

SUPPORT ANALYST

Nov. 2003 - Mai. 2006

- Develop a news database to website using Java.
- Computer maintenance.
- Telephone central maintenance.
- User Support by e-mail, telephone or personally.

## Licenses & certifications

### Scrum.org

PROFESSIONAL SCRUM MASTER I (PSM I)

Credential ID 495164

Brazil

2020, Jan.

### IBM

IBM CERTIFIED SOLUTION DESIGNER - IBM RATIONAL UNIFIED PROCESS V7.0

Brazil

2010, Dec.

## Additional credentials

### Latin American and Brazilian Robotic Competition

STANDARD EDUCATION KIT (SEK) CATEGORY ORGANIZER

- Competition Rules Review.
- Technical Responsible Person.

Brazil

2013, Jan. - 2017, Dec.

### ROBOFEI Team

MEMBER

- Service and Health Robotic focus on Human Robot Interaction.
- Developing focus on RoboCup home tasks competition using ROS, Python and C++.

Brazil

2013, Sep. - 2017, Sep.

### OBMEP - Brazilian Mathematical Olympiad for Public Schools

JUDGE

- Second phase judge.

Brazil

2013, Jan. - 2014, Dec.

## Awards

### INTERNATIONAL

2016 **Finalist**, RoboCup Home

Leipzig, Alemanha

### DOMESTIC

2016 **First place**, RoboCup Home

Recife, Brazil

2015 **Third place**, RoboCup Home

Uberlandia, Brazil

2015 **First place**, Academic Honor in FEI University Center

Sao Bernardo do

Campo, Brazil

2009 **First place**, VII EXPOCOM - Computer Science Projects Exhibition in FEI University Center

Sao Bernardo do

Campo, Brazil