Andrey A. **Masiero**

Full Stack/Platform Developer · Researcher

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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 as Spring, NodeJS, Flask, Django, React, and Angular. The main projects are ATM product development for Santander Brasil, an interaction robot to help older adults, and a cognitive chatbot using IBM Cloud Service as Watson For Speech, Speech-to-text, and Image Recognition—Front-end for Web and Mobile versions.

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 to 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 to Automation

2011, Mar. - 2013, Feb.

- Fulltime Scholarship in CNPq (Brazilian Government) working on FINEP project in a 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

MotorK

Milan, Italy

Senior Platform Engineer

2023, Mar. - 2024, Aug.

- Responsibilities: Develop, maintain, and support features based on integration needs between all the products. All support and create pipelines for CI/CD and administration of support systems like Keycloak.
- Technologies: Back-end (Java), Front-end (VueJS/TypeScript), Docker, Grafana, Loki, Keycloak, Apache Kafka, Redis, PostgreSQL, MySQL, Jenkins, Terraform, K8s environment, and AWS Cloud Services.
- Projects: Design a backstage system to orchestrate the creation of different product instances for each client. Also, it keeps updating, using messaging exchange, all the products database.

Viator, TripAdvisor

Lisbon, Portugal

Senior Software Engineer

2021, Dec. - 2023, Jan.

- 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 interacts with Google Maps and several page elements; find an example 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. - 2023, Feb.

- 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. The bot can find the nearest theater and next movie, make orders, and FAQ. The chatbot integrates with a front-end component for the company's website, Facebook Messenger, Telegram, and WhatsApp. The back-end service used Spring Boot/Java to integrate with the Google Cloud Platform and IBM Cloud. Front-end chat component was with React/TypeScript *(2021, Jan. - 2021, Jun.)*
  - HR Onboarding System with React for front-end, back-end in Spring Boot/Java and Oracle as database *(2020, Aug. - 2020, Nov.)*
  - Create a microservices architecture to split the monolithic system of an energy company. All the microservices were created using a DDD concept and developed with Spring Boot/Java. Most databases used were relational, like MySQL and PostgreSQL; however, some services where data are not structured use MongoDB. The microservices were deployed into a K8s environment in a private cloud. *(2019, Jul. - 2020, May.)*
  - Dashboard to monitor financial indicators for a private bank. The data are consumed from a datalake and converted into a Hadoop environment using Scala and Java. *(2018, Dec. - 2019, Apr.)*
  - Customized architecture and coding training and workshops. *(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, and 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, Fev.

- 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, and Computational Intelligence. Thesis Supervisor for undergraduate students and specialist students.
- Coordinated the study group for programming competitions and digital games.
- 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, Brasil

SYSTEM ANALYST

Abr. 2010 - Mar. 2011

- Responsibilities: Requirement Analysis, Application of RUP methodology on software documentation, Application of Scrum for a 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 the control taxes system project three 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 withdrawal, 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 the withdrawal feature on the ATM. It lets the use in 35% faster on the withdrawal 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 tire consumption using AJAX client and COBOL server sides.
- 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.

EGO Informática

Sao Bernardo do Campo, Sao Paulo, Brazil

Support Analyst

Nov. 2003 - Mai. 2006

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

Licenses & certifications

Scrum.org

Brazil

Professional Scrum Master I (PSM I)

2020, Jan.

Credential ID 495164

IBM

Brazil

IBM Certified Solution Designer - IBM Rational Unified Process V7.0

2010, Dec.

Additional credentials

Latin American and Brazilian Robotic Competition

Brazil

Standard Education Kit (SEK) Category Organizer

2013, Jan. - 2017, Dec.

- Competition Rules Review.
- Technical Responsible Person.

ROBOFEI Team

Brazil

Member

2013, Sep. - 2017, Sep.

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

OBMEP - Brazilian Mathematical Olympiad for Public Schools

Brazil

Judge

2013, Jan. - 2014, Dec.

- Second phase judge.

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 Exibition in FEI University Center	*Sao Bernardo do Campo, Brazil*