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- [Website](#)
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# Igor Simões de Oliveira Lima

## Software Engineer

### About Me

Currently, I'm a Software Engineer at Locus Custom Software working with Python/Django and ReactJS. In early 2020, I obtained my Master degree in Software Engineering at Federal University of Pernambuco (Recife, Brazil). Bachelor in Computer Science at Federal University of Alagoas (Arapiraca, Brazil). I was a research fellow at Laboratory of Analysis, Modeling and Programming (LAMP) at Federal University of Alagoas. In 2016, I was resident in the Sequential Course of Complementary Training in Test Analysis by the Motorola Mobility at CIN-UFPE working as a QA Developer integrating the Automation Team, performing the automation of testing cases in mobile applications and implementing internal tools.

## Education

### Jul 2017 - Jan 2020, Federal University of Pernambuco - CIn

Master's degree in Computer Science. Main area: Software Engineering and Software Testing.

### Jan 2016 - Dec 2016, Federal University of Pernambuco - CIn

Sequential Course of Complementary Training in Software Engineering with emphasis on Software Testing by Motorola Mobility and CIN-UFPE.

### Feb 2011 - Jan 2017, Federal University of Alagoas

Bachelor's degree in Computer Science.

## Experience

### Sep 2019 - Present, Software Engineer, Locus Custom Software

Currently, developing web applications with Django and ReactJS. Designing and implementing testing methodologies and helping my teammates with code review and TDD.

Knowledge acquired: Django, ReactJS, Flask, FastAPI, Docker.

### Jul 2017 - Jan 2020, MSc. in Computer Science, CIN-UFPE

During the master's degree, I led two projects and worked on other projects with colleagues from University of Lisbon (ULisboa/PT) and University of Illinois Urbana-Champaign (UIUC/USA) under the supervision of my advisor Prof. Dr. [Marcelo d'Amorim](#).

#### Project: [Leveraging Diversity to Find Bugs in JavaScript Engines \(MSc. thesis\)](#)

- We mined JavaScript files from open-source projects and apply techniques to violate the EcmaScript specifications in JS engines (Google V8, Microsoft ChakraCore, Apple JavaScriptCore and Mozilla SpiderMonkey).
- In this project, we reported 49 bugs and 35 of them was confirmed and 28 was fixed by the Microsoft, Apple and Google teams.
- Paper accepted at [SQJ'2021](#).

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Project: **Practical detection of CMS plugin conflicts in large plugin sets**

- We implemented a technique to identify conflicts in plugins in the WordPress framework, using textual diff and image recognition using openCV
- Paper accepted at [IST'2020](#).

Project: **Prioritizing Runtime Verification Violations**

- Identifying specification violations in Java projects, reporting bugs and using machine learning algorithms to prioritize the results
- Paper accepted at [ICST'2020](#)

Project: **LithiumSlicer**

- A test minimization tool to help developers create small test inputs.
- I helped to design and implement the infrastructure to run the experiments with ULisboa colleagues.
- Available at [LithiumSlicer](#)

**Jan 2016 - Dec 2016, QA Test Analyst, Project Motorola Mobility/CIn-UFPE**

Working in Automation Team fixing and implementing test cases for mobile devices.

Knowledge acquired:

- Software testing for Motorola mobile phones:
  - GSM / 2G
  - UMTS / 3G
  - HPSA / 3.5G
  - LTE / 4G
- Analysis and Reporting in JIRA tools
- Execution of test cases:
  - Manual
  - Semi-automatic
  - Automatic
- Types of tests:
  - Black-box testing / Functional
  - Sanity
  - Regression
- Automation with UIAutomator and internal softwares

**Jan 2013 - Dec 2015, Software Developer, Laboratory of Analysis, Modeling and Programming (LAMP) - UFAL**

Developing applications for Academic Researches using Java and JavaFX. One of them was a desktop application to support the learning of physics on a digital board using JBox2D to create a environment with gravity, velocity and others metrics. I worked also in another project implementing a plugin for monitoring students actions in Geany IDE(Integrated Development Environment) to display the metrics collected in a Django server.

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## Skills

### Programming

- Python
  - Django
  - Flask
- Javascript
  - NodeJS
  - ReactJS
  - React-Native
  - MeteorJS
- Java

### Knowledge and Tools

- MySQL
- Docker
- TDD
- Jenkins
- ... and more
- PostgreSQL
- Linux
- Pytest
- Scrum
- MongoDB
- Selenium
- JIRA
- Kanban

### Learning

- NextJS
- FastAPI
- Elixir
- Flutter

## Interests

### Professional

Programming, Software Engineering, Web and Mobile Apps.

### Personal

Music, Poems, Books, Games and Cooking.

## Extras

### Personal Projects

- [Cerebro-yts-movies](#) (700+ downloads)
  - A plugin for [Cerebro app](#) to search and download Movies from [YTS website](#).