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- ○ Website
- ○ LinkedIn
- ○ GitHub

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 where I worked as a QA Developer integrating the Automation Team, performing the automation of testing cases in mobile applications.

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 adquired: 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 adquired:
- 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 working hard for Cooking.

Extras

Personal Projects

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