

Rafael Mariottini Tomazela

Email

Website

LinkedIn

GitHub

languages

Native brazilian
portuguese,
Fluent english

relevant skills

Python, C/C++, Java,
Tensorflow, Linux

Experience

- Sep 2015 **IFood S/A** Developer
- Jan 2017 Development of an application that bridges iFood's systems with point of sale terminals using TCP sockets. Development of new features and maintenance on a set of microservices and a monolithic Java application which uses Spring framework. Development of features and systems which helps to improve the users' food delivery experience.
- Fev 2015 **CESAR** Internship
- Jul 2015 Development of an automation software for a quadcopter using Propeller microcontrollers. The software used data from three sensors (accelerometer, magnetometer and gyroscope) for orientation estimation, and PID controllers for motors activation.
- May 2014 **Little Guy Games, Toronto** Summer Internship
- Aug 2014 Development of 3 games using Unity 3D with C#: extensive work on *Yu-Gi-Oh! Duel Dash* and smaller contributions to other two unannounced projects.

Education

- Mar 2017 **Masters in Computer Science** Focus on Deep Reinforcement Learning
- Mar 2019 Implemented basic control and deep reinforcement learning algorithms, trained a walking controller for a bipedal robot in a simulated environment using Proximal Policy Optimization.
Universidade Estadual de Campinas
- Jan 2014 **B.S. Computer Science** Exchange Program
- Dez 2014 University of Toronto, Canada
- Fev 2011 **B.S. Computer Science**
- Jul 2015 Universidade Federal de São Carlos

Undergraduate Research

- 2012-2013 **Implementation and evaluation of a parallel clustering algorithm in MO-CLE** Supported by FAPESP
Supervised by Tiemi Cristine Sakata, PhD, Professor of Computer Science
- 2013-2015 **Study and development of a distributed architecture for the DataExplorer** Supported by FAPESP
Supervised by Katti Faceli, PhD, Professor of Computer Science

Other activities

- 2013 **Participation in the ACM-ICPC Latin-American programming contest**
- 2011-2013 **Participation in yearly Universidade Federal de São Carlos' programming contest**
- 2011-2013 **Participation in the regional phase of the annual ACM-ICPC programming contest**

Relevant open-source projects

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|------|---|------------------|
| 2019 | Bipedal robot walking control algorithm | Work in progress |
| 2017 | Video stabilization algorithm (Sift, RANSAC) | |

Relevant online courses

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|------|--|-------------------------------------|
| 2018 | Neural Networks for Machine Learning University of Toronto (Coursera) | By Geoffrey Hinton |
| 2012 | Artificial Intelligence The University of California at Berkeley (edX) | By Dan Klein |
| 2011 | Introduction to Artificial Intelligence Stanford University | By Peter Norvig and Sebastian Thrun |
| 2011 | Machine Learning Stanford University | By Andrew Ng |