# Rafael Lopes

*Software Developer*

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## Education

**2010 – 2013**  **Master of Science**, *University of São Paulo*, São Paulo, Institute of Mathematics and Stastistics.
Research Area: Computer Vision and Image Processing.
Supervisor: Prof. Dr. Roberto Hirata.

**2004–2009**  **Bacharel (4-Year Bachelor) in Computer Science**, *University of São Paulo*, Institute of Mathematics and Stastistics, São Paulo.

## Experience

**2012 – Present**  **Developer**, *Artis*, São Paulo.
Development of neural navigator for computer assisted medical image visualization in surgery; Computer vision and computer graphics application in python using VTK.
Technical lead of a small team.

**2011 – 2012**  **Project Analyst**, *Nic.br*, São Paulo.
Development of technologies to measure broadband internet quality.
Data analysis of results from tests, dealing with huge datasets.
Creation of automatic network failure detection using machine learning.
Development of a webservice for distributed data storage.
Working with C(embedded), Java and Python(for data analysis) systems.
Project: Simet.nic.br.

**2010 – 2011**  **Software Developer**, *WhiteHat*, São Paulo.
Development of Django Python applications.
Development of django web systems.
Creation of a webscrapper to extract data from online social networks in python.

**2007 – 2009**  **Intern in Software Development**, *PR&A*, São Paulo.
Development of financial software.
Technologies used include Java Server Faces, Spring, Maven and JPA.

**2007 – 2007**  **Intern in Software Development**, *LSITEC*, São Paulo.
Development of embedded software using C language.
Cellphone development.
Interaction with co-workers overseas.

**2005 – 2007**  **Sysadmin**, *Rede Linux-IME-USP*, São Paulo.
Maintenance of a Linux based network with over 100 computers and more than 3000 users, using only free software.

## Computer related skills

**Languages**  C, Java, Python, SQL, and good notions of R and C++.

**Markup**  HTML, CSS and LaTeX.

**Version Control Systems**  GIT, Mercurial and Subversion

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|---|---|
| Platforms | Linux, Unix and Windows |
| Tools | Vim, GCC, Make, Autotools, Maven. |
| Frameworks Python | Django, OpenCV, Numpy, Vtk, Wx, Reportlab and Celery. |
| Frameworks J2EE | Spring, Hibernate and EJB. |
| C Libraries | Pthreads, Sockets, OpenGL, OpenCV. |

## Languages

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|---|---|
| Portuguese | Native Language. |
| English | Speaking, reading, and writing. |

## Research Interests

○ Computer vision.

○ Human color vision.

○ Machine learning and Data analysis.

○ Web Development

## General Interests

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|---|---|
| Open Source Projects Collaborations | bitbucket.org/rafaellg/visiondataset — A web platform for scientific collaboration; visocor.sourceforge.net — A Compiz plugin for colorblindness accessibility. github.com/rafaelolg/salienpy — Salienpy is a set of state of the art saliency models implementations in python. |