



<http://extrapolo.com>

Rafael Polo is a Software Developer & IT Consultant who works & collaborates in several interdisciplinary teams with researchers, activists and artists for almost two decades.

From Rio de Janeiro, Brazil + Portuguese citizenship

Lives at Solomou 34, 16082, Athens, Greece

13.06.1985 | 34 years old

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EDUCATION

Master in Information Systems – July 2010 to July 2012

Research Area: Knowledge Representation and Reasoning

Federal University of Rio de Janeiro State (PPGI/UNIRIO)

Extension in Digital Culture and Cognitive Capitalism – first semester 2010

Communication School (ECO/UFRJ)

Rio de Janeiro Federal University

Bachelor in Computer Science – July 2003 to July 2009

Centro Universitário Metodista Bennett

Rio de Janeiro, Brazil

Java Software Development – February 2006 to February 2007

Department of Electronic Computation (NCE/UFRJ)

Rio de Janeiro Federal University

Open Source Software Workshop – April 2005

Fundação Educacional Serra dos Órgãos

Teresópolis, Rio de Janeiro, Brazil

Linux System Engineer – February to December 2004

M.Cury Computação

Rio de Janeiro, Brazil

Visual Basic Programming – last semester 1998

Index Informática

Nova Friburgo, Rio de Janeiro, Brazil

PROFESSIONAL EXPERIENCE

Code+Create School – first Semester 2018

Web Programming Teacher for Greeks & Refugees (HTML, CSS, jQuery)
Athens, Greece

Khora Community Center – May 2017 to May 2018

Open a Computer Lab for Refugees in Khora as a volunteer, organizing classes, managing computers and helping with the digital infra-structure.
Athens, Greece

Tactical Tech Collective – November 2014 to June 2016

Full-Stack Web Architect and Developer under Exposing the Invisible team
Berlin, Germany

Trommsdorff + Drüner – December 2013 to February 2014

Developer for Innovation + Marketing consultants team
Berlin, Germany

Meio – 2010 to 2012

Co-founder of Meio Co-work Space with Architects and Designers
Rio de Janeiro, Brazil

Cortex Intelligence – September 2007 to November 2008

Developer in Competitive Intelligence and Data Mining R&D team
Rio de Janeiro, Brazil

Logical Systems – first semester 2007

SysAdmin and Java developer of Organization main Software
Rio de Janeiro, Brazil

INPP – Instituto Nacional de Pesquisas Públicas – April to July 2004

Main developer of the "Planning" System in Delphi & MySQL
Teresópolis, Brazil

MeuServidor – 2002 to 2003

Co-founder of a Web Hosting Server based on Linux & PHP
Rio de Janeiro, Brazil

LANGUAGES

- Native Brazilian Portuguese
- Advanced spoken Spanish
- A2 level German (2 years in Berlin)
- Basic Greek (2 years in Athens)
- Fluent English (6 years in between international groups)

SELECTED SELF-INITIATED PROJECTS

[Ares](#) – 2019

Tool developed for investigative journalists to collect and analyze hundreds of WhatsApp groups data during Brazilian elections. (*scrapping the unscrappable*)

[Tribuna](#) – 2018

This software project corrects, integrates, structures and optimizes all Brazilian Electoral Supreme Court's Electoral Data Repository into a single query-able relational database to facilitate investigation by journalists, hackers and activists. [ex: [the intercept](#) article]

[Renda](#) – 2018

Framework for cryptocurrency experiments: conceptualizes and operates Wallets, Markets, Ticks, Orders, Brokers, Arbitrage and Strategies in Crystal language.

[Steganos](#) – 2014

Creative conceptual-algorithm to encode & decode any digital file into an image, and vice-versa.

[Mostre!me Cultura](#) – 2013

Experimental Culture & Communication system, exposing with many filters and data visualization all Brazilian Ministry of Culture data-mined financed projects of the last 10 years. Still almost 400 visitors/researchers per day. In 2015 it was extended to present the Minister of Education data about all country Universities and Courses. [ex: [DataViz](#)]

[Rastros](#) – 2012

Traces, in English, is a open-source software project that enables real-time detection and manipulation of movements in beautiful ways.

[Processing Sketches](#) – 2010

A series of Computer Vision experiments to manipulate in real-time object detection.

[Graphs](#) – 2010

A series of dynamic scripts which generates different data-visualization use-cases & graphs from twitter follower-following circle to Wikipedia semantic networks.

[Mostre!me Links](#) – 2009

Is a - still active - simple & fast URL redirection and clicks-monitor system like bit.ly, meaning "Show me" in Portuguese, with thousands of created links in the last 10 years.

[Consulta Natural](#) – 2009

Implementation of the 'Natural Language Query System for RDF Repositories' from Nokia Research Center Cambridge, 2007, applied to a Google Talk chat agent. Ask him.

[Chat-RSA](#) – 2008

ChatRSA is a software project which provides automatic RSA encryption/decryption messages in a simple safe chat box using basic TCP/IP connections.

[SubZKU.space](#) – 2019

Interactive Audio Guide: a multi layered sonic response to five years of making at ZK/U *Zentrum für Kunst und Urbanistik, Berlin.*

[Exposing the Invisible](#) – 2016

Through a series of short films, video interviews, guides and resources, *Tactical Tech Collective* looks at different techniques, tools and methods along with the individual practices of those working at the new frontiers of investigation, empowering people to uncover hidden information, expose corruption and bring the truth to light.

[Av. Atlântica 1101](#) – 2014

Rich interactive user-interface in which background, pictures and videos are defined based on Rio de Janeiro time zone to promote the flat at Avenida Atlântica 1101 in Copacabana.

[Agenda Água na Escola](#) – 2013

Platform developed to the Municipal Secretary of Environment of Rio de Janeiro to follow water metrics through participation of municipal school's students across all State.

[Studio Zanini](#) – 2013

From-scratch responsible Content Management System developed to the Product Designer Zanini de Zanine, awarded Furniture Designer.

[WebDoc Graffiti](#) – 2012

Award-winning collaborative Web-documentary Platform of São Paulo street-art Graffiti.

[Pensar Público](#) – 2012

Website, 3-floor exhibition & Interactive Systems to inaugurate the Centro Carioca de Design at Rio de Janeiro.

[Etaoin Shrdlu](#) – 2012

FTP-Based CMS which generates all typographic portfolio of Pedro Moraes artworks.

[Gráfica Utópica](#) – 2011

Experimental Interactive Website to present the namesake collective exhibition at Belas-Artes Museum of Rio de Janeiro.

[Victor Haim](#) – 2011

Innovative and inspiring Content Management System platform to present and manipulate photographer Victor Haim blog & portfolio.

[Razão e Ambiente](#) – 2010

Website & Interactive System for Modern Art Museum of São Paulo (MAM/SP) Razão e Ambiente exhibition.

EXHIBITIONS

[Connecting Cities – Prototyping Lab](#) – January 2015

Connecting Cities Network wants to develop an awareness on the changes which are hardly visible to the eyes and are underlying our nowadays cities.

Transmediale, Haus der Kulturen der Welt, Berlin

[Pensar Público](#) – February 2012

Exhibition on dynamic and real-time city mapping

Centro Carioca de Design. Studio-X, Rio de Janeiro, Brazil

[Vênus-Terra](#) – December 2011

Presentation of the "Variation" artwork

Galeria TAC, Rio de Janeiro, Brazil

[WikiBot](#) – November 2011

Projection starts with a random word and follows related Wikipedia links under the hood by random "curiosity" and random times. (*it went to Wikipedia and never came back*)

Projection at Casa Comuna, Rio de Janeiro Brazil

[Abotoados pela Manga](#) – September 2010

3-week art-and-politic residency during 29º São Paulo Bienal of Art

São Paulo, Brazil

FELLOWSHIPS & AWARDS

[WebDoc Graffiti Platform](#) – 2012

Collaborative Cartographies Initiatives

By Brazilian Federal Ministry of Culture

[Dammatio Memoriae](#) | Software-Art – 2011

Gallery & Published Book

By Memefest: International Festival of Social Responsive Communication & Art

[CAPES Fellowship for Postgraduate Research](#) – first semester of 2010

By Brazilian Federal Ministry of Education

MAIN TECH SKILLS

- System Analyses & Modeling with UML
- MVC System Architecture & Object-Oriented Programming
- Data Engineering Relational Databases & SQL (+ learning Neo4j GraphDB)
- Developing Crawlers & Scrappers for Data Mining & ETL
- Many software projects developed in PHP, Python, Java, Crystal and mostly Ruby
- Linux Systems, SSH, Git & Deploy processes
- Full Stack Web Developer & Web design with HTML, CSS, Javascript & APIs
- Ruby on Rails, jQuery and Processing.org Media Frameworks