Rafael Polo

Software Engineer & Consultant with 20 years of experience on IT projects

Personal

First name: Rafael

Middle name: Gomes de Oliveira

Last name: Polo

Age and birthday: 39 years old, 13 June 1985

Marital Status: Single, no children

Citizenship: Portuguese and Brazilian Address: Basel 4055, Switzerland

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Formal Education

- Postgraduate in Data Science for Finance 2021
 NOVA Information Management School, Lisbon
- Master in Information Systems 2010~2012
 Research Area: Knowledge Representation and Reasoning, PPGI/UNIRIO
- Bachelor in Computer Science 2003~2009 [diploma]
 Thesis: Agile Systems Development for Web 2.0 with Ruby on Rails

Relevant Skills

- System Analysis & Modeling with UML
- MVC System Architecture, Design Patterns & Object-Oriented Programming
- Data Engineering, Data Science, Relational Databases & SQL
- Distributing and Scaling Processes with Message Queues
- Developing Web Crawlers & Bots for Data Mining & ETL
- Linux Systems, VPS, DevOps, SSH & Deploy with CI/CD processes
- Full Stack Developer & Front-end Web Design with HTML, CSS and Javascript frameworks
- Multidisciplinary approach. Projects with linguists, designers, journalists, economists, artists...

Main Technologies

- Ruby on Rails (RoR), ActiveRecord, Kafka, Redis, Sidekiq, nokogiri, debug...
- Development Environment: Linux, Git, Zsh, Tmux, Screen, SpaceVim...
- Regular Expressions, RabbitMQ, Web Services, JSON, REST & APIs integration.
- Databases: MySQL, MongoDB, PostgreSQL, Clickhouse & GraphQL.
- Processing.org Media Framework, fmpeg, imagemagik, convert...
- Javascript frameworks: D3js, jQuery, Vue.js + Data Visualization libs
- Projects developed in Ruby, PHP, Python, Java, Crystal, Typescript, Pascal and Bash.

ExtraPolo! – own Agency

From 2008 to 2023 Polo has worked as an independent Software Developer and IT Consultant, developing dozens of Software Projects for public and private contractors in Brazil, Germany, Greece and Switzerland - also publishing different purpose SaaS, tools, bots, database mappings and visualizations.



Relevant Professional Experience

- Swisscom actual Zürich, Switzerland
 DevOps Engineer developing platforms for Telecommunication Operations
- EDGE Strategy 2023 1y Zug, Switzerland Senior Tech Lead managing projects and hiring UX & Dev Teams for a SaaS Company
- Code+Create School + Khora Community Center 2017~2018 Athens, Greece Web Development Teacher 30 diverse students on Linux, Javascript, HTML, CSS
- Tactical Tech Collective 2014~2016 Berlin, Germany
 Senior Ruby on Rails Developer for a NGO under the Exposing the Invisible Team.
- Trommsdorf + Drüner 2013~2014 Berlin, Germany
 Full-stack Engineer Innovation Team developing Business Intelligence dashboards
- Cortex Intelligence 2007~2008 Rio de Janeiro, Brazil

 Developer in the Competitive Intelligence and Data Mining Team
- MeuServidor Co-founder 2002~2003 Nova Friburgo, Brazil
 Co-founder of a Web Hosting Server Company in Brazil based on Linux & PHP

Selected self-initiated Projects

- <u>Tribuna</u> 2018 This software corrects, integrates, structures and optimizes all Brazilian Electoral Supreme Court's Electoral Repository Data of candidates and votes into a single queryable relational database to facilitate further investigations & data-visualizations of public money flows on politicians.
- <u>Steganos</u> 2014 Ruby algorithm to encode & decode any digital file into an image, and vice versa.
- <u>Rastros</u> 2012 Written using the Processing.org Media Framework. Traces, in English, is an open-source software project that enables real-time detection and manipulation of movements in beautiful ways.
- Mostre!me Cultura 2011 Full-stack platform as an Experimental Culture & Communication system, exposing with many filters and data visualization all Brazilian Ministry of Culture data-mined financed nation-wide cultural projects of 10 years.
- <u>Consulta Natural</u> 2009 Ruby implementation of the 'Natural Language Query System for RDF Repositories' paper from Nokia Research Center Cambridge, 2007, applied to a Google Talk agent.
- <u>Chat-RSA</u> 2008 ChatRSA is a Privacy Software written in Java which provides automatic RSA encryption and decryption chat messages using basic TCP/IP connections.

Natural Languages

- Native Brazilian Portuguese
- Advanced Spoken Spanish
- A2 level Greek 3 years in Athens
- A2 level German 4 years in Berlin and Zürich
- Fluent English 12 years in between international groups