Vinicius Gravina da Rocha

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CURRENTLY IN: Calgary, Canada

Work Experience

PRESENT 2013 — Founder & IT Consultant, Boechat & Gravina Smart Solutions, Brasil

1) Business model for a small company and development of a web-application for customer relationship, accounting and inventory control in Django/Javascript 2) Platform to forecast Eurostoxx-50 and European Energy Futures in Clojure 3) Development of Optical Character Recognition (OCR) Systems for car plates, Driver's License and Vehicle Registration Certificate 4) Real-time application for sports performance in Delphi 5) Development of a profitable algorithmic trader for the cryptocurrency market in Clojure.

2014-2015 — Consultant and IT Engineer at Cost House, Brasil

1) Cost understanding and cost engineering for mid-size to large companies by implementing *Activity Based Costing* (ABC) and *Activity Based Budgeting* (ABB) models 2) Specifications for the development of the ABB module to equip Valoptia Software Suite 3) Development of a web application for enhancing data visualization in d3js/JavaScript, CSS and HTML.

2011-2014 — Team Leader in the Decaptcher Project at Neoway, Brasil

1) Coordination of a small R&D team to develop automatic CAPTCHA recognition systems for web crawlers using Java, Clojure, image processing, artificial intelligence and statistical analysis 2) Indicators and standardization of procedures to deploy Decaptchers in production.

2008-2009 — Internship at J. P. Morgan, Brasil, as Stock Analyst Assistant

1) Valuation, forecast and reports for the companies in the Telecom, Media and Technology (TMT) sector 2) Marketing presentations and products for customers.

2007 — Internship at Dassault Systemes, France, as Software Engineer

Specification, development and implementation (in C++) of a smart assembly algorithm for CATIA (worldwide CAD leader).

2006 — Internship at Airbus Delivery Center, France, as Aircraft Mechanic Assistant

Final checks and adjustments of aircrafts before delivery.

2005-2006 — Industrial Studies Project with Arcelor Packaging, France

Theoretical model and Excel/VBA implementation to predict and optimize the lubricant amount circulating on a rolling mill system.

Computer Skills

Programming paradigms
Functional (Clojure, EmacsLisp, JavaScript)
Object Oriented (C++, Java, Python, Delphi)
Scripting (BASH, Excel/VBA)
Memory Managed (C)
Mathematical Modeling (AMPL)
Numerical Computing (MatLab/Simulink, Octave)
Markup Language (HTML/XML, LaTeX)
Declarative (SQL, RegExp)

Softwares
Django, d3js, Debian, Git, SVN, Mongo, {Postgre, My}SQL, Apache, Tomcat, Office Suites

Languages

PORTUGUESE: Mothertongue
ENGLISH: Proficient, IELTS 8/9, exam held on April 2015
FRENCH: Proficient, 4 years lived in France. ETS-TFI 915/990, held on October 2006

Formal Education

2010-2013	Master's degree in Automation and Systems Engineering, University Federal de Santa Catarina - UFSC, Brasil Thesis: "Adaptative piecewise linear strategies applied to optimize oil & gas production"	Advisor: Prof. Eduardo Camponogara
2005-2007	Engineer Master's Degree, Ecole Centrale Nantes, France Degree while on double diploma with an Eiffel-Égide excellence grant.
2003-2009	Bachelor in Mechanical Engineer (*cum laude*), Universidade Federal do Rio Grande do Sul - UFRGS, Brasil

Interests and Activities

I enjoy learning new things and getting to know different people and cultures.

The domains I'm most interested are computer science, economics, investment, finances, psychology, engineering and science fiction. I'm currently studying Haskell and Austrian Economics.

Also, I like to surf, trail run, sail and mountain bike.