

Iuri Chaer

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Profile

I'm a software architect and developer with solid background on algorithms and computer architecture, and a very good understanding of the interactions between user-mode programs and the Linux kernel. In the past, I have worked with legacy systems in C, full stack web development in PHP and Java, HPC solutions using FPGAs, highly concurrent C++ financial risk calculation software, and systems for making sense of big data. I'm also a big supporter of continuous integration and automated testing as ways of improving quality of life.

Skills

Programming: C++, C, Perl, Python, PHP, and Java, ordered from most to least recently and extensively used.

Technical skills: Bash and sed scripting; HTML, CSS and Javascript; SQL; some Linux sysadmin experience.

Languages: Fluent English, native Portuguese, full professional proficiency in Italian.

Work Experience

Senior Software Engineer **Splunk, London (UK)** **Sep 2015 - Present**

- Working on Splunk, a Big Data product on which over 10k paying customers rely for operational insight.

Senior Software Architect **Maxeler Technologies, London (UK)** **Jun 2011 - Sep 2015**

- Work on high-performance computing (HPC), combining carefully crafted software (mostly in C++11) with FPGA-based stream-computing hardware to offer highly performant solutions.
- Key contributor to inception, design and development of the Maxeler RiskEngine financial library, a highly scalable implementation of risk models in C++11 for which licenses were in the 7 figures.
- Wrote large-scale financial risk management system which became a multi-million-dollar project.
- Helped transform a culture of prototype-making into one of maintainable, production-quality software.
- Worked in the design and development of models and algorithms for computationally complex problems.

Web Team Tech Lead **MTV Networks, Milan (Italy)** **May 2010 - Jun 2011**

- Developed from scratch new versions of ondemand.mtv.it and classifiche.mtv.it (4M pageviews/month) so that they could be served by a single Amazon EC2 small instance.
- Drove adoption of cloud servers, acted as sysadmin and created the backup system for over a dozen local websites which were migrated to the new infrastructure.
- Acted as main tech interface between my team, the US core devs and content editors from 4 countries.

Software Architect **Consultor Jurídico, São Paulo (Brazil)** **Nov 2007 - Feb 2010**

- Complete rewrite of the content-management system (CMS) and front-end for www.conjur.com.br.
- Back-end still in use as of 2015, with a single low-cost server servicing over 6M pageviews/month.

Software Developer **Convergys, São Paulo (Brazil)** **Feb 2006 - Mar 2007**

- Developed, maintained and optimised database-intensive systems using C++ and PL/SQL.
- Collaborated with offshore teams for bug-fixing and development of new features on Windows GUIs.

Production Senior Analyst **Claro, São Paulo (Brazil)** **Oct 2005 - Feb 2006**

- Developed and used tools for monitoring, diagnosis and patching of errors by the Amdocs Mobile billing system.

Software Engineer **Atos Origin, São Paulo (Brazil)** **May 2004 - Oct 2005**

- Maintained and developed software in C and SQL; parallelized legacy code to improve run-time.

Intern in Software Engineering **Bull, São Paulo (Brazil)** **Apr 2002 - May 2004**

Education

- M.Sc. in Computer Engineering, 2009-2010** — Escola Politécnica da USP (Brazil)
Dissertation: *A study on the Theory of Prediction applied to the semantical analysis of Natural Languages* ([PDF](#))
- Google Information Technology Residency Programme, 2007** — Google and UFMG (Brazil)
- B.Sc. in Computer Engineering, 1999-2003** — Escola Politécnica da USP (Brazil)

Honors and Awards

- Got to the final round of the Google Code Jam Latin America programming competition ([Feb 2007](#)).
- Part of the first group in Google's Information Technology Residency Programme in Brazil (Mar 2007).
- Awarded a scholarship by CNPq, a Brazilian organization, to pursue master's project (Feb 2008).

Publications

A procedure for semantic queries under the Adaptive Formalism

IEEE Latin America Magazine, 2011 ([PDF](#))

A study on the elementary action of query under the Adaptive Formalism

Memórias do WTA 2009 - Terceiro Workshop de Tecnologia Adaptativa / Escola Politécnica da USP, 2009

Establishment of the semantic context in Natural Language

Anais do I Congresso de Computação da Grande Dourados / Universidade Estadual do MS, 2008