

# Résumé (last updated 12/2013)

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## Work Story

*08/2012 - Present: Google, Switzerland. Software Engineer in Test:*

I am the Lead Software Engineer of the Core YouTube Engineering Productivity team. The team has 6 Software Engineers based on Europe and US. We develop Software tools used daily by hundreds of YouTube Software Engineers, such as the Development and Staging Environments, the Testing Frameworks and the Test Infrastructure. Our work directly impacts the productivity of most YouTube Engineers, indirectly impacting the development velocity and quality of the features of the YouTube website, which is itself visited by more than 1 billion unique users each month.

*03/2012 - 07/2012: Federal University of Rio Grande do Sul, Brazil. Member of GPPD Research Group:*

- Comparative Study of Programming Models for Concurrency;
- Using Chapel, Cilk, Erlang, Go, Scoop and TBB (Threading Building Blocks);

*03/2011 - 07/2011: Google, Switzerland. Software Engineer in Test Intern:*

- Production-Realistic Load Testing of Google Properties;
- Design and implementation of a framework for continuous, automatic load testing;

*04/2008 - 07/2010: Federal University of Rio Grande do Sul, Brazil. Member of PET Research Group:*

- Leader of the RoboPET Robot Soccer (RoboCup Small Size League) Team;
- Design and implementation of the Artificial Intelligence;

## Education

*03/2008 - 07/2012: B.Sc. in CS (Summa Cum Laude), Federal University of Rio Grande do Sul, Brazil;*

- Double Degree with B.Sc. from Brazil and *Diplôme d'Ingénieur* (M.Sc. Eng.) from France;
- GPA 4.0/4.0.

*09/2010 - 01/2012: Diplôme d'Ingénieur (M.Sc. Eng.) Ensimag, Grenoble Institute of Technology, France;*

- *09/2010 - 07/2011: Information Systems Engineering* (last year of M.Sc.Eng.);
- *09/2011 - 01/2012: Parallel, Distributed and Embedded Systems* (last year of MoSIG);
- GPA 3.52/4.0.

## Accomplishments

- Delivered technical talks in Switzerland, United States, France and Brazil (2013);
- 66th place on Challenge 24 (2013);
- Overall GPA 3.81/4.0 (2012);
- 83th place on Internet Problem Solving Contest (IPSC, 2012);
- Stanford's online Introduction to AI class, Advanced Track (score 99.5%, top 5%, 2011);
- 21th place, Southwestern European Regional Programming Contest (SWERC - ACM ICPC, 2011);
- 22th place on Challenge 24 (2011);
- 137th place on Facebook Hacker Cup (2011);
- 13th place, Southwestern European Regional Programming Contest (SWERC - ACM ICPC, 2010);
- 1093th place on Google Code Jam (2010);
- 1210th place on TopCoder Open: Algorithm (2010);

- 16th place on Brazilian Stage of ACM ICPC (2009);
- 1st place on I Brazilian Olympiad on Computational Linguistics (2009);
- 7th place on RoboCup Small Size League Technical Challenges (RoboCup, 2009);
- Top 3, Brazilian National Examination for Admission in CS Graduate Programs (POSCOMP, 2009);
- 1st place of south region, Brazilian National Examination of Students Performance (ENADE, 2008);

## Awards

- Ambassador at Grenoble Institute of Technology's Graduation Ceremony (Grenoble INP, 2013)
- Best Full Paper Award, 7th ACM-IEEE Int. Symp. of Emp. Soft. Eng. and Meas. (ESEM, 2013).
- Distinguished Computer Science Student (Brazilian Computer Society - SBC, 2012)
- Certificate of Recognition UFRGS (2011):
  - "The Federal University of Rio Grande do Sul (UFRGS) pays tribute to Kaue Soares da Silveira in recognition for distinction in the realization of his work in pursuit of academic excellence, which contributes greatly to the success of UFRGS."
- Double Degree Merit Scholarship - Brazilian Ministry of Education (MEC, 2010)
- Math Merit Scholarship - Brazilian Nat. Council of Tech. and Scient. Dev. (CNPq, 2006 and 2005)
- Bronze Medal on II Brazilian Mathematics Olympiad of Public Schools (OBMEP, 2006);
- Silver Medal on I Brazilian Mathematics Olympiad of Public Schools (OBMEP, 2005);
- 2nd place on Chess in College Games of Rio Grande do Sul (JERGS, 2005 and 2004);

## Publications

### [Benchmarking Usability and Performance of Multicore Languages](#)

- Sebastian Nanz, Scott West, Kaue Soares da Silveira, and Bertrand Meyer
- Proceedings of the 7th ACM-IEEE International Symposium Empirical Software Engineering and Measurement (ESEM'13). IEEE, 2013.

### [Examining the Expert Gap in Parallel Programming](#)

- Sebastian Nanz, Scott West, and Kaue Soares da Silveira
- Proceedings of the 19th European Conference on Parallel Processing (Euro-Par'13), volume 8097 of Lecture Notes in Computer Science, pages 434-445. Springer, 2013.

## Skills

- Excellent problem solving and analytical skills acquired competing in programming contests;
- Good communication and presentation skills, gained through working as a Google Engineer;
- Leadership, leader of a team of 6 Software Engineers at Google (since 2013);
- Self-taught acoustic (since 1999), electric (since 2002) guitar, and piano (since 2005) player.

## Languages

- Portuguese - Mother Tongue; English - Fluent; French - Fluent; Spanish - Basic; German - Basic.

## Interests

- Bodybuilding, running (from 5km to marathon), swimming and cycling;
- Playing guitar and piano (played monthly Brazilian music concerts in France for 2 semesters);
- TopCoder ([kauesilv](#)), Codeforces ([kssilveira](#)), Hacker.org ([kauesilv](#)), ProjectEuler ([kauesilv](#)).