

## Antonio Guilherme Ferreira Viggiano

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## Education

- 2011 — 2013 **General Engineering (Master's degree)**, *École Centrale Marseille*, Double Degree.  
**Emphasis on Information Technology and Digital Society, GPA 3.9 out of 4 (top 5%)**
- Eiffel Excellence Scholarship awarded by the French Ministry of Foreign and European Affairs
  - President of the International Centrale Marseille students' association for 1 year, responsible for coordinating a group of more than 20 students in the reception and integration of exchange students
  - Led a group of 7 students in a one-year project to develop a real-time air quality monitoring platform using Arduino microcontrollers, XBee radio modules and gas sensors
  - Member of the Programming Club, participated in the resolution of many Project Euler problems
  - Relevant coursework: Complex Analysis, Statistical Physics, Continuum Mechanics, Quantum Physics, Electromagnetism, Probability, Statistics, Signal Processing
- 2009 — 2014 **Mechatronics Engineering (Bachelor's degree)**, *Escola Politécnica, Universidade de São Paulo*.  
**Ranked 2nd best student, weighted average 8.2 out of 10 (top 5%)**
- Thesis: Proposal of an algorithm and development of a software library for recommendation systems of e-commerce products (Research Advisor: Prof. Fábio Cozman)
  - Undergraduate Researcher in the Bioengineering Laboratory for 8 months, having developed a filter that separated images of ventilation and perfusion in electrical impedance tomography using the Hilbert-Huang Transform (Research Advisor: Prof. Raul Lima)
  - Numerical Calculus Teaching Assistant for 6 months, responsible for giving extra courses, correcting programming assignments and supervising exams
  - Participated in the students' robotics team for 1 year, ranked the second place in two national competitions
  - Relevant coursework: Calculus, Linear Algebra, Partial Differential Equations, Fluid Mechanics, Solid Mechanics, Thermodynamics, Special Relativity

## Professional Experience

- Nov 2014 **Co-founder & Tech Lead**, *BelugaDB*, Brazil.  
— *BelugaDB is a big data platform that provides real-time insights through dashboards and machine learning*
- Aug 2017
- Managed a group of 4 senior software engineers as the lead database developer
  - Designed and developed most of the high-performance columnar database, including its compressed bitmaps indexing strategy, its search algorithms and its distributed architecture, which was capable of processing terabytes of data in milliseconds, outperforming some of the industry's benchmarks
  - Participated in the main areas of the organization, including the data storage, extraction and visualization divisions, as well as in key activities such as hiring, onboarding, mentoring and strategic planning
- Mar 2014 **Software Engineer Intern**, *Revmob Mobile Ad Network*, Brazil.  
— *Revmob is one of the leading mobile ad networks when it comes to monetization of iOS & Android*
- Oct 2014
- Led the integration team of 5 people which increased the revenue of publishers by 15% by partnering with demand-side platforms and updating the company's software development kit
  - Led a task force of 3 people in the development of an anti-fraud algorithm which reduced 80% of all invalid requests by applying a set of rules to suspicious traffic, saving thousands of dollars in refunds
  - Helped design and led the onboarding process of the company by structuring programming courses, culture meetings and off-site activities for new hires
  - Helped restructure the company's security policies by adopting best practices and preventive measures

## Additional Information

- Languages **Portuguese** Native, **English** Fluent (TOEFL 117/120), **French** Fluent (DALF C1), **Spanish** Intermediate, **Japanese** Basic
- Programming Proficient in C/C++, Node.js, Bash, AWS and related technologies; open source contributor and author of a compressed bitmaps library, one of the top 10 most starred Redis modules; developed a crowdsourcing app in the São Paulo Public Transportation Hackathon and achieved the second place among over 50 teams
- Hobbies Guitar playing (member of a rock band, played in many small concerts), traveling (studied in different cities in France for 2 years and visited over 20 countries in Europe, Africa, America and Asia); e-learning (completed over 10 online courses in a wide range of subjects, from Philosophy to Quantum Mechanics)
- Charity Work Former member of TECHO (nonprofit organization that fights extreme poverty in Latin America with housing and inclusion programs); mathematics, physics and chemistry teaching assistant in high school