

## Antonio Guilherme Ferreira Viggiano

Rua Augusta, 2099, Apt 42. São Paulo, SP, 01413-000 – Brazil

+55 11 95196 4111

agfviggiano@gmail.com

## 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 award 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
  - Participated in many computer science and mathematics projects throughout the course, including the development of a traveling expert system; elaboration of an online search engine and classifier of Project Gutenberg's e-books; resolution of various Project Euler problems in the university's Programming Club
  - Participated in the organization of the "Traversée du Vieux Port 2012", an annual event held by the students consisting of teams building rudimentary boats to race against each other in the city's old harbor
- 2009 — 2014 **Mechatronics Engineering (Bachelor's degree)**, *Escola Politécnica, Universidade de São Paulo*.  
**Ranked 2nd best student, pondered average 8.2 out of 10 (top 5%)**
- Thesis: Development of a recommender system for the suggestion of products in e-commerce
  - Numerical Calculus Teaching Assistant for 6 months, responsible for giving extra courses, correcting programming assignments and supervising exams
  - Numerical Calculus Tutor for 6 months, helping students with tests and programming exercises
  - Research Intern in the Bioengineering Laboratory for 8 months, having developed a filter that separates ventilation and perfusion images in electrical impedance tomography using the Hilbert-Huang Transform
  - Participated in the students' robotics team for 1 year, getting the second place in two national competitions

## 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 and outperforming some of the industry's benchmarks
  - Participated in the main areas of the organization, including the data storage, data extraction and data visualization divisions, as well as in key areas 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
- Lead 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
  - Lead 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 lead the onboarding process of the company by structuring programming courses, culture meetings and off-site activities with new hires
  - Helped restructure the company's security policies by adopting best practices and preventive measures

## Additional Information

- Languages **Portuguese** Native, **English** Fluent (TOEFL 113/120), **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 the redis-roaring compressed bitmap library, one of the top 10 most starred Redis modules in the world; developed a crowdsourcing app in the São Paulo Public Transportation Hackathon and got the second place among over 50 teams
- Hobbies Guitar playing (member of a rock band, having played in many small concerts), traveling (studied in three different cities in France for more than 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 Physics); table tennis (participated in a state competition)