

# ALANTIEL FREIRE MARINS

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## PERSONAL INFORMATION

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## OBJECTIVE

To use my knowledge, in accordance with current standards of technology, always developing them in the area of advanced computing, mathematics and sciences in general.

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## EDUCATION

- 2014-2015 Instituto de Matemática e Estatística da Universidade de São Paulo **IME / USP**  
**M.S. in Computer Science at Instituto de Matemática e Estatística (IME)**
- Member of the Research Group in Combinatorial Optimization and Machine Learning
  - Focus on Optimization Algorithms, Graphs and Machine Learning
- 2011-2014 Instituto de Matemática e Estatística da Universidade de São Paulo **IME / USP**  
**B.S. in Applied Mathematics at Instituto de Matemática e Estatística (IME)**
- Second undergraduate course: focus on Linear Programming, Linear Algebra and Algorithms **(IME)**
- 2006-2010 Faculdade de Tecnologia **Fatec**  
**B.S. in Computer Science with emphasis in Business Management**
- First undergrad course: focus on OO Programming, Design Patterns, Data Structure and Algorithms

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## EXPERIENCE

- 2016-current **Job title:** Software Engineer Specialist  
**Activities :** (1) Redesign of recurring payment system with new technologies such as Docker, Jenkins, Mesos/Marathon, Spring Boot (and its stack), and Reactive Programming, Kafka, and (2) Creation of new PagSeguro product from scratch: credit card emission and management.  
**Employer :** PagSeguro / PagBank
- Study and implementation of technologies in new architecture
  - Monitoring of microservices in production
  - Responsible for managing technical agile teams, and technical backlog
  - Refactoring of legacy code in (1)
  - Responsible for machine learning study group initiative in (2)

- 2015–2016 **Job title:** Full Stack Developer  
**Activities :** Creation of web and mobile solutions for an e-commerce focused on men's grooming/hygiene products.  
**Employer :** Men's Market
- Integration with external services in a complete shopping flow (Technologies: Java, PHP, Docker, AWS, Solr)
  - Responsible for adopting agile development techniques (kanban/kaizen)
  - Data analysis
- 2012–2015 **Job title:** Systems Analyst  
**Activities :** Analysis and development of e-commerce systems with high level programming languages  
**Employer :** Universo Online - UOL
- Implementation of products and services of the biggest news site of Brazil with Java and PHP, mainly.
  - Use of agile development techniques
  - Development of projects with MVC
  - Presentation of techniques theme on development in workshops
- 2008/09–2012/11 **Job title:** Webmaster  
**Company :** Universo Online - UOL  
**Activities :** Development of high court systems with client side technologies
- Implementation of products and services of the biggest news site of Brazil with Javascript/JQuery
  - Creation of rich interfaces by using HTML5
  - Working in projects with agile methodologies such as Scrum and Kamban
  - Creation of automated tests with Selenium
- 2008/05–2008/09 **Job title:** PHP programmer  
**Company :** Savoir Tecnologia e Desenvolvimento  
**Activities :** Development creative sites for big companies with differents technologies
- Implementation of various projects for external companies with PHP and AJAX
  - Database modeling
  - Development of layout's with XHTML and CSS
- 2008/02–2008/05 **Job title:** Computing teacher for tourism students  
**Company :** Serviço Nacional de Aprendizagem Comercial – Senac  
**Activities :** Teaching basic computer skills and professional attitude to technical course in Tourism.
- Microsoft Office class and professional environment.
  - Internet tips and tricks
- 2006/06–2008/05 **Job title:** PHP programmer/ Web designer  
**Company :** Mark Tecnologia da Informação  
**Activities :** Implementation of the company's main system modules and site development of external clients
- Implementation of systems with PHP
  - Development of layout's with XHTML and CSS
  - Participation in changes of the company's system, supporting the update from version 3 to 7
  - Database modeling and maintenance
  - Development of ERP system used for sales, reports and history log

2006/02–2006/06 **Função:** Microsoft Office and web design teacher  
**Company :** Cenap Cursos  
**Activities :** teaching and support the automation of tasks

- Office classes
  - HTML/Javascript with and without IDE's tools
  - Database modeling for clients log
  - General systems for tests and automation of tasks
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## LANGUAGES

- **Technical English** (good reading and comprehension)
  - **Technical Spanish** (good reading and comprehension)
  - **Portuguese** (native)
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## OFFICIAL CERTIFICATIONS

- **SCJP** Sun Certified Java Programmer 1.5 (approved with 86%)
  - **SCJA** Sun Certified Java Associate 1.0 (approved with 82%)
  - **MCSD 70-480** Programming with HTML5, Javascript and CSS3 (approved with 86%)
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## COURSES

- **AWS official training** Architecting on AWS
- **AWS official training** AWS Essentials
- **Caelum** SOA in practice: integration with web services and messaging
- **Advanced topics in programming** Summer course at IME-USP: Guilherme Puglia
- **Algorithms: Design and Analysis, Part 1** Coursera (Stanford)
- **Machine Learning** Coursera (Stanford)
- **Introduction to Mathematical Thinking** Coursera (Stanford) **with distinction**
- **Java academy** preparation for SCJP certification - Globalcode
- **Applied Mathematics** Modules: P(0), P(1), P(2), P(-1) - Prandiano course, Agnaldo Ricieri
- **Computer programming** (Delphi, Visual Basic, logics, SQL Server e database modeling) - Senac Consolação
- **Mysql** Center for diffusion of technology and knowledge
- **Web design** (HTML, Dreamweaver, Fireworks, Flash) Cenap
- **Web Programming** (PHP, MYSQL) - UNICAMP online
- **Web Standards** (XHTML, CSS e padrões web) - UNICAMP university online
- **English** III e IV - My English Online (MEC/Capes)

- **English** (reading and comprehension) Microcamp
  - **Spanish** (reading and comprehension) Microcamp
  - **Essentials English I, II e III** - Cel lep Paulista
  - **LaTeX for Students, Engineers, and Scientists** EDX
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## SIDE PROJECTS

- **Fuvest 2013** First and second phases of the university entrance exam 2013: worked as a judge in UMC Villa Lobos
  - **IME-USP 2013** Monitor Summer Course 2013 - Application development in PHP
  - **Colégio São Domingos 2012** Judge in a term paper project (about Games and Sociology)
  - **FFLCH-USP 2008** Development of a site with dynamic content management for research project group at USP
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## ACHIEVEMENTS IN COMPUTING

- **2017** 1st place - Facebook Hackathon (Facebook Journalism Project - SP)
  - **2009** Development of control of lab computers use system for Fatec
  - **2008** iMasters columnist - [www.imasters.com.br](http://www.imasters.com.br)
  - **2008** ACM International Collegiate Programming Contest, represented Fatec getting ranked 12th in the regional stage of São Paulo, C / C++
  - **2008** Participated in the challenge of developing Data Access with Visual Basic
  - **2007** ACM International Collegiate Programming Contest, represented Fatec getting ranked 13th in the regional stage of São Paulo, C / C++
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## EVENTS AND CONFERENCES

- **Secot 2019** I presented the technical architecture of PagSeguro credit card project, where I was tech lead at the time
- **Lightning talk 2018** I presented how I won a Facebook Hackatoon with Machine Learning, and MVP ideas
- **Software Design in the 21st Century** at USP with Martin Fowler.
- **QCon 2011, 2013, 2015, 2018** São Paulo - The most important conference of of development in the world.
- **Web Intents - A evolução dos serviços web. 2012.** I talked about web intents and its use on UOL tech day
- **The Developers Conference 2012 - Python e Front End tracks** São Paulo - Globalcode (Development with Python, Noje.js, Front End Architecture, Frameworks, Trends)
- **Google Developer Day 2011** WTC São Paulo - Google - choosen by contest
- **Android Bootcamp** USP-GTUG, where I participated in a group of 70 students from USP
- **Applied mathematics to life** - Math Museum - São Paulo - with Agnaldo Ricieri
- **Training methods for programming challenges of Moscow University** IME-USP with Petr Mitrichev
- **Imasters Intercon 2009** São Paulo - gift for some 2008 columnists

- **HTML5 for early adopters** - Presentation given by representatives of W3C for UOL before releasing the specification
  - **The Developers Conference 2008** São Paulo - Globalcode (lecture by various national and international experts in Java and methodologies, including Ed Burns, Reza Rahman and Burr Sutter)
  - **Social uses of the Internet 2008** Senac - gift for teachers
  - **Internet: Past, Present and Future 2008** W3C
  - **IX Technology Week Fatec São Paulo 2008** Fatec São Paulo
  - **VIII Technology Week Fatec São Paulo 2007** Fatec São Paulo
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## INTEREST AREAS

Some areas that I have more interest and focus

- **Computer science** machine learning, artificial intelligence, object-oriented and structured programming, databases, algorithms, data structures, web development
  - **Mathematics** combinatorial optimization, linear algebra, mathematical modeling
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## WEBSITE

[www.alantiel.com](http://www.alantiel.com) Technical features:

- **Technologies:** HTML5, NodeJS with Express, JQuery, CSS3 and MySql
- **Indexed** by research tool like Google and Bing
- **HTML5** verified and validated by the agency W3C (web standards)
- **CSS** verified and validated by W3C (web standards)
- **Layout** functional on all major browsers and resolutions