

# Emilio Tirado

## Curriculum Vitae

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I'm a very passionate software developer that enjoys solving problems and has a lot of fun programming, trying to keep things simple for me and others. My experience is mostly related to web architectures, working fullstack with several technologies and most likely solving problems related with design, logic and implementation of models and services. I would like to be part of a team where I can collaborate sharing and learning, trying new technologies and frameworks in order to solve new challenges.

## Experience

### Fullstack Software Engineer

- January 2016 – present **Fullstack Software Engineer**, BLANCLINK, Caracas.
- Fullstack software engineer, working with mobile hybrid applications and RESTful APIs
- Digitalud: This project is a mobile hybrid application made using Ionic Framework, and a RESTful API using Jersey framework. My tasks were building frontend services and logic across the views, and doing the integration with the RESTful API.
  - HealthyMama: This project is a mobile native application using Swift for IOS development, and Jersey for the RESTful API. My tasks were building services in the API and model relationships.

### Vocational

- 2009 – Present **Deputy Leader**, INTERNATIONAL OLYMPIAD IN INFORMATICS, Caracas.
- After being a contestant, I keep working with algorithm and programming contest competitions, specifically as a Deputy Leader of the Venezuelan delegation attending to the International Olympiad in Informatics. Also I kept participating in programming contests like ACM International Collegiate Programming Contest.

Detailed achievements:

- Contestant in Egypt IOI-2008
- Deputy Leader in Bulgaria, Canada, Thailand, Italy, Australia, Taipei and Kazakhstan in the IOI's from 2009 to 2015
- Contestant in Northern South America regional finals of the ACM-ICPC in 2010 and 2012

### Technical Leader

- September 2014 – December 2015 **Technical Leader**, 4GEEKS.CO, Caracas.
- Technical leader of small team, working with several web projects, in charge of development, task assignments and coordination between members of the team.
- Dreambuilder: This project is an AngularJS app that consumes a Django middleware service for a wedding planning company. My tasks were building frontend logic for asynchronous communication with the middleware, implementation frontend templates to show the data and constructing AngularJS filters and directives to clean up the logic and keep the code clean.
  - Level Chef: This project was built in Python using Django framework 1.8 and Django Rest Framework and is intended to be a Restful API for an e-learning platform. I was on charge of the design of the models and relationships, as well as modeling the services exposed to the consumers.
  - Century21 Peru: This project was built in PHP for backend using laravel framework 4.2, and the frontend using JQuery and handlebars for AJAX calls and templating. In this project I was acting as a full stack developer, continuing the development of a previous developers. My tasks in this project involved model management, services design and integration, refactoring to clean up the code, and writting templates for the views.

## Software Engineer

- August 2015 – **Software Engineer**, UPWORK.COM – SPREENAUTEN GMBH, Freelancer.  
October 2015 Software engineer, working in a startup team for radio rentals, using Python Pyramid as backend framework and AngularJS as frontend framework. My tasks in this project were adding filters and templates functionality in frontend views using AngularJS, also making improvements to the pdfs templates of the system using jinja2, and adding some logic on the services as well as modifications in the models using SQLAlchemy.

## Bachelor's degree Thesis

- 2014 - 2015 **Software developer**, UNIVERSIDAD CENTRAL DE VENEZUELA, Caracas.  
Construction of a judging system for algorithm competitions. This project included three main parts a frontend based on AngularJS a backend server built on SailsJS framework and a task runner daemon using docker. The server was on charge to serve the information related to the contests running, allow contestants to send tasks, and allow juries to issue orders to evaluate and give the final result to users. The daemon was on charge to take unreliable code and running it using docker for sandbox, calculating the results and sending it back to the juries. Most of this communication was done using websockets to offer the best experience for the users. I was on charge of the design and implementation of the services, interactions, synchronizations and all the features offered in the system.

## Software Engineer

- March 2013 – **Software Engineer**, 4GEEKS.CO, Caracas.  
August 2014 Software engineer, working in a web project for medical histories and logistics, using Java EE architecture, and GWT for the frontend design and implementation. My tasks in this project were building and helping the design of the models of the system as well as the services exposed in form of EJB for business logic. Also I have worked in the propagation of the events in the views and the whole navigation and communication process.

## Software Engineer Intern

- September 2013 – **Software Engineer Intern**, SMARTMATIC, Caracas.  
December 2013 Software engineer intern, working in the electoral system project, in charge of an automatization module for electoral data generation, using Java EE architecture. In this project my task was building a servlet capable with the minimum information required, generate the data structures and basic information in order to start a real voting event. This information required hierarchical management and graph traversal algorithms to do it in a short timeframe.

## Teaching Assistant

- March 2011 – **Teaching Assistant**, UNIVERSIDAD CENTRAL DE VENEZUELA, Caracas.  
March 2013 Teaching assistant in the Math School of the university. I was on charge of network infrastructure, web page and server maintenance.

## Teaching Fellow

- October 2008 – **Teaching Fellow**, UNIVERSIDAD CENTRAL DE VENEZUELA, Caracas.  
– March 2011 Teaching fellow for algorithms and data structures course in the Computer Science School

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## Skills

- Proficient Algorithms and Data Structures  
**Frameworks and technologies**  
Proficient AngularJS, JQuery and AJAX  
Experienced NodeJS, SailsJS, Java EE frameworks, Django, Laravel and HTML/CSS  
Basic Pyramid, SQLAlchemy, Jinja, Rails, Play Framework, Bootstrap, Sass, OpenGL and GLSL  
Interested React, ES2015, IOS and Android  
**Programming Languages**  
Proficient C++ and Java

Experienced Javascript, Python and PHP

Basic Ruby

[Other](#)

Intermediate Version control systems (Git, Subversion)

Basic Database management (Mysql, PostgreSQL, Oracle and MongoDB), server configuration (Nginx, Apache), IaaS (Heroku), Virtualization (Docker, Vagrant), Continuous Integration (Jenkins), LaTeX

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## Education

2006–2015 **Bachelor in Computer Science**, *Universidad Central de Venezuela*, Caracas.

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## Personal Programming Profiles

TopCoder <https://www.topcoder.com/members/emiliot/>

Spoj <http://www.spoj.com/users/blackperl/>

Codewars <http://www.codewars.com/users/emiliot>

Hackerrank <https://www.hackerrank.com/emiliot>