

# SEBASTIÁN ARCILA VALENZUELA

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## EDUCATION

**Universidad EAFIT (Medellín, Colombia)** Software Engineering

2007-2012

(GPA): 4.4/5

Selected Coursework:

**Computer Science:** Computer Graphics · Programming Languages · Data Structures and Algorithms · Automata & Computation · Numerical Analysis · Databases · Operating Systems · Programming Paradigms · Computer Architecture · Compilers · Distributed Systems · Multivariable Calculus · Linear Algebra · Discrete Math · Physics · Statistics · Operations Research

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## WORK HISTORY

**Self-Employed (Remote)** (December 2013 - Current )

Consultant

- Migrate a high traffic site from heroku to softlayer
- Migrate a rails 3 app to rails 4 and ruby 2
- Develop an API integration between a legacy Single Sign On system running on JOSSO with a new rails application

**Staunchs Robots (Remote)** (July 2013 - November 2013 )

Software Engineer

- Work for a different sort of clients, using ruby on rails, pivotaltracker, github and agile methodologies.

**Authy Inc. (Bogotá, Colombia)** (April 2013 - July 2013)

Software Engineer

- Develop a C plugin for open vpn
- Add features to the public and private API using ruby and sinatra
- Create an assets generator for mobiles device using ruby and imagemagick

**Universidad EAFIT (Medellín, Colombia)**

**Visiting Scientist at C.E.C.I. Laboratory at MIT (Boston, MA)** (October 2012 - March 2013)

Programmer iLab LabServer Project

- Project to rewrite the LabServer interface between LabView and the architecture of iLabs MIT
- Work on the LabServer integration with the different services of iLabs

**weheartit.com (Remote)** (January 2012 - February 2013)

Ruby on Rails developer

- Update an API ruby wrapper to use the new version (3.1) of Imperium
- Build new features for the site using agile methodologies, like Test Driven Development and Scrum

**StackBuilders (Remote)** (February 2012 - June 2012)

Ruby on Rails developer

- Work for a different sort of clients, using ruby on rails, pivotaltracker, github and agile methodologies

**Art.sy (Remote)** (January 2011 - August 2011)

Ruby on Rails lead developer and Quality Assurance Engineer

- Migrate art.sy application from PHP to Ruby on Rails
- Design the initial Restful API
- Add the OAuth provider to the API
- Migrate the legacy database (SQL) to mongoDB
- Redesign the database model
- Code new features using Test Driven Development

**Ceiba Software House S.A.S (Medellín, Colombia)** (October 2008- June 2010)

Developer Engineer

- Develop a different set of sub-modules and helper libraries for a Java "send-only" mail system
- Work on Java Web Development

**Universidad EAFIT (Medellín, Colombia)**

**Educational Computing Research** (August 2009-December 2010)

Part-Time Research Assistant

- Design and develop social network in rails for the university
- Design and develop social network in rails for Colombian ministry of education, called "Banco de Proyectos"

**Universidad EAFIT (Medellín, Colombia)**

**Seminar for Programming Contest** (September 2007- December 2011)

**Director and Teacher**

- Teach simple and advanced data structures
- Teach advanced algorithms for programming contest

**Streetmavens (Remote)** (April 2010- December 2010)

**Lead Developer**

- Design and Developed an algorithm to find relations between users using their publications
- Migrate it from a linux machine to a heroku environment
- Redesign the crawl system for tweets and facebook messages
- Implement an IP-based geo-localitation system
- <http://streetmavens.com/>

**Hirschfactor Facebook App (Remote)** (November 2010 - December 2010)

**Developer**

- Connect private Hirschfactor API to a viral marketing app on facebook
- Implement the redesign site
- <http://apps.facebook.com/hirschfactor/>

**World of Wrestling (Remote)** (May 2010 - December 2010)

**Lead Developer**

- Develop a simple cms system to keep up to date all the USA wrestling community
- <http://www.worldofwrestling-roller.com/>

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TEACHER ASSISTANT EXPERIENCE

- Computer Architecture
- Numerical Methods
- Numerical Analysis

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SKILLS

- Expert in software development using Ruby.
- Expert in Web Development using Ruby on Rails.
- Proficient in Test Driven Development.
- Proficient with GNU/Linux and Mac OS X.
- Proficient with GIT
- Proficient with JavaScript
- Familiar with Behavior Driven Development.
- Familiar with C/C++, Java, Lisp, Clojure, Python and Bash.
- Familiar with SVN.

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LANGUAGES

- Spanish - Native Language
- English - Good (MELICET 75)

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REFERENCES

**Miguel A. Yáñez Barreto** (Google)

**Programming contest coach**

- [miguely@google.com](mailto:miguely@google.com)

**Daniel Doubrovkine** (Art.sy)

**Head of engineering**

- [dblock@dblock.org](mailto:dblock@dblock.org)

**Juan Guillermo Lalinde Pulido** (Universidad EAFIT)

**Professor of data structures, algorithms, data bases and operating system signatures**

- [jlalinde@eafit.edu.co](mailto:jlalinde@eafit.edu.co) - +57 311 349 81 74

**Francisco Correa** (Universidad EAFIT)

**Professor of numerical analysis and programming paradigms**

- [fcorrea@eafit.edu.co](mailto:fcorrea@eafit.edu.co) - +57 301 371 41 32

## ACHIEVEMENTS

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- Regional Math Olympiads, University of Antioquia, Final Phase Contestant, 2006
- National Math Week, San Marcos, Contestant, 11/2/2006
- Iberon-American Mathematics Olympiad, Contestant, 2009
- XV Contest for high school mathematics and physics , Universidad EAFIT, First place, 2006
- Colombian Math Olympiads, University of Antonio Narino, First place, 03/2006
- Colombian Math Olympiads, University of Antonio Narino, First place, 10/2006
- Intercollegiate Math Olympiads, San Marcos, First place, 2006
- First GEMIS-OE Programming Contest, Universidad EAFIT, First place, 2008
- Second GEMIS Programming Contest, Universidad EAFIT, First place, 2008
- National Programming Contest ACIS REDIS, Medellin Colombia, Sixth place, 2008
- South American Contest ACM ICPC, Universidad de los Andes, Second place, 2008
- ACM-ICPC World Finals, Stockholm Sweden, Honorable mention, 2009
- National Programming Contest ACIS REDIS, Medellin Colombia, Second place, 2009
- "Programming Challenges", University of Sao Paulo, Participant, 2010
- South American Contest ACM ICPC, Universidad de los Andes, Second place, 2010
- ACM-ICPC World Finals, Orlando Florida, Honorable mention, 2011
- National Programming Contest ACIS REDIS, Medellin Colombia, Universidad EAFIT Coach, 2011

## ENTREPRENEUR / STARTER PROJECTS @ ZINERGIA

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### **Zinergia** (Current)

#### ***Developer***

- Zinergia is a small business with now a 6 people team that build web and mobile applications. Most projects are for the local fashion industry.
- You can find us on <http://zinergia.co>

## PERSONAL PROJECTS

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- All projects and current work can be found at my GitHub profile <https://github.com/sarcilav/>