Sebastián Arcila Valenzuela

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Education

Universidad EAFIT (Medellín, Colombia) Software Engineering
2007-2012
Current Cumulative (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

Work History

Universidad EAFIT (Medellín, Colombia)
Visiting Scientist at C.E.C.I. Laboratory at MIT (October 2012 - March 2013)
Programmer iLab LabServer Project

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

weheartit.com (January 2012 - February 2013)
Ruby on Rails developer

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

StackBuilders (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 (January 2011 - August 2011)
Ruby on Rails lead developer and Quality Assurance Engineer

- Migrate art.sy application form 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

- Developed of different sub-modules and helper libraries for a Java "send-only" mail system
- Worked on Java Web Development

Universidad EAFIT (Medellín, Colombia)
Educational Computing Research (August 2009-December 2010)
Part-Time Research Assistant

- Designed and developed social network in rails for the university
- Designed and developed 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 (April 2010- December 2010)
Lead Developer

- Designed and Developed an algorithm to find relations between users using their publications
- Migrated it from a linux machine to a heroku environment
- Redesigned the crawl system for tweets and facebook messages
- Implemented a IP-based geo-localitation system
- http://streetmavens.com/

Hirschfactor Facebook App (November 2010 - December 2010)
Developer

- Connected private Hischfactor API to a viral marketing app on facebook
- Implemented the redesign site
- `http://apps.facebook.com/hirschfactor/`

World of Wrestling (May 2010 - December 2010)
Lead Developer

- Developed a simple cms system to keep up to date all the USA wrestling community
- Deployed at Enyine Yard
- `http://www.worldofwrestling-roller.com/`

TEACHER ASSISTANT EXPERIENCE

- Computer Architecture
- Numerical Methods
- Numerical Analysis

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
- Familiar with Behavior Driven Development.
- Familiar with C/C++, Java, Javascript, Common Lisp, Prolog, Python and Bash.
- Familiar with technologies such as SVN.

LANGUAGES

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

REFERENCES

Miguel A. Yáñez Barreto (Google)
Programming contest coach

- miguely@google.com

Daniel Doubrovkine (Art.sy)
Head of engineering

- dblock@dblock.org

Juan Guillermo Lalinde Pulido (Universidad EAFIT)
Professor of the data structures, algorithms, data bases and operating system signatures

- jlalinde@eafit.edu.co - +57 311 349 81 74

Francisco Correa (Universidad EAFIT)
Professor of numerical analysis and programming paradigms

- fcorrea@eafit.edu.co - +57 301 371 41 32

Achievements

- 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, Honarable mention, 2011
- National Programming Contest ACIS REDIS, Medellin Colombia, Universidad EAFIT Coach, 2011

Entrepreneur / Starter Projects @ Zinergia

Zinergia (Current)
Developer

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

Personal projects

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