

# SEBASTIÁN ARCILA VALENZUELA

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## WORK HISTORY

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**Art.sy** (January 2010 - May 2010)

**Ruby on Rails lead developer and Quality Assurance Engineer**

- Design and Develop a LSH algorithm and data structure for it inside mongoDB
- Migrate legacy database (SQL) to mongoDB
- Redesign the database model
- Code new features using TDD
- Write Performance tests for db and memcached servers

**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-Current)

**Director and Teacher**

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

## EDUCATION

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**Universidad EAFIT (Medellín, Colombia)**

2007-Current Computer Science

Current Cumulative (GPA): 4.4/5

Selected Coursework:

**Computer Science:** Computer Graphics · Distributed Virtual Reality · Programming Languages · Data Structures and Algorithms · Automata & Computation · Numerical Analysis · Databases · Operating Systems · Computer Architecture · Compilers · Distributed Systems

**Mathematics:** Multivariable Calculus · Linear Algebra · Discrete Math · Physics · Statistics · Operations Research

## TEACHING ASSISTANTSHIPS

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- Computer Architecture
- Numerical Methods
- Numerical Analysis

## SKILLS

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- Proficient in software development using C/C++ and Ruby.
- Proficient in Web Development using Rails.
- Proficient in TDD.
- Familiar with BDD.
- Familiar with Javascript, Python and Bash.
- Familiar with GNU/Linux and Mac OS X.
- Familiar with technologies such as Git and SVN.

## LANGUAGES

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- Spanish - Excellent
- English - Good (MELICET 75)

## CONTACTS

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

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

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

**Francisco Correa** (Universidad EAFIT)

**Professor of numerical analysis**

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

## ACHIEVEMENTS

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- Regional Math Olympics, University of Antioquia, Final Phase Participant, 2006
- National Math Week, San Marcos, Participant, 11/2/2006
- Iberon-American Mathematics Olympiad, Participant, 2009
- XV Contest for high school mathematics and physics , EAFIT University, First place, 2006
- Colombian Math Olympics, University of Antonio Narino, First place, 03/2006
- Colombian Math Olympics, University of Antonio Narino, First place, 10/2006
- Intercollegiate Math Olympics, San Marcos, First place, 2006
- First GEMIS-OE Programming Contest, EAFIT University, First place, 2008
- Second GEMIS Programming Contest, EAFIT University, First, 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, Participant, 05/27/2011-01/06/2011

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#### RECENTLY COMPLETED PROJECTS.

##### **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 Hirschfactor API to a viral marketing app on facebook
- Implemented the redesign site
- <http://apps.facebook.com/hirschfactor/>

##### **World of WrestlingHirschfactor Facebook App** (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/>

##### **Here I keep my personal projects** (Current)

###### Developer

- <http://github.com/sarcilav/>