Sebastián Arcila Valenzuela

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Work History

Art.sy (January 2011 - August 2011)
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

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

- Computer Architecture
- Numerical Methods
- Numerical Analysis

Skills

- 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

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

Contacts

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

- 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
- National Programming Contest ACIS REDIS, Medellin Colombia, EAFIT University Coach, 2011

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 Hischfactor 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/