

SERGIO BOTERO

First name: Sergio, Last name: Botero Uribe

• sergiobuj@gmail.com

WORK HISTORY

Universidad EAFIT (Medellín, Colombia) (Jan 2011 - Mar 2014)

Multiple Research Groups

Research in Spatial Economics, RiSE Group

Clusterpy Maintainer

- Code optimization of the clustering algorithms available in the Clusterpy library
<https://github.com/clusterpy>.
- Some work on algorithm optimization and parallelization of the library.
- Project to make available the Clusterpy library on EAFIT's Apolo computer cluster.
- In charge of the general development of the Clusterpy library (Fix issues, plugins, new code).

Visiting Scientist at C.E.C.I. Laboratory at MIT

Developer LabManager Project

- Project to integrate multiple Remote laboratory systems (e.g. iLabs, Deusto) in different Learning Management Systems, and allow students to access remote laboratories from their course contents.
- Working on the LMS to LabManager communication.
- Project is at <https://github.com/gateway4labs/>

EAFIT Apolo High Performance Computing

Data Center Operations

- Creation of scripts for automated installs of computer cluster.
- (Side project) Web application to help people create submission files required to send a job to a cluster that uses Condor HTC.

R+D In Computer in Education

Intern Research Assistant

- Ubiquitous technology project: Interactive TV application to let children in rural areas learn about their context.
- (Side project) Developed an iOS application for the university. Let students access grades, class schedule and general information.
- Project for the implementation of a NanoHub mirror for Latin America.

39 Inc (May 2012 - September 2012)

iOS developer

- Part of the iOS development team [Part time remote position].
 - Developer of a native iOS application for an existing Web application.
 - Worked on the development of a new application. Had to solve issues with memory management, networking and basic table views.

Kogi Mobile (Medellín, Colombia) (September 2011)

iOS developer

- Work on the technical development of iOS applications.
 - Worked on adapting a video advertising component for a TV show application.
 - Worked on the development of a new version for an already existing application.

EDUCATION

Universidad EAFIT (Medellín, Colombia)

Software Engineering

Jan 2007 - Dec 2011 (Graduation Jun 2012)

Cumulative (GPA): 4.1/5

Selected Coursework:

Computer Science: Programming Languages · Data Structures and Algorithms · Operating Systems · Computer Architecture · Software Engineering

Training on the Hubzero project - Purdue University

Aug 2011 - Dec 2011

Training on the implementation and support for a supercomputing platform and the project that enables its usage.

CONTESTS

- Fifth place, South American Contest ACM ICPC, Universidad de los Andes, 2009
- First place, Third GEMIS-OE Programming Contest, Universidad EAFIT, 2009

CONFERENCES

Frontiers in Education Conference, 2013 IEEE

Pablo Orduña, Sergio Botero, Nicolas Hock, Elio Sancristobal, Mikel Emaldi, Alberto Pesquera Martin, Kimberley DeLong, Philip Bailey, Diego López-de-Ipiña, Manuel Castro, Javier Garcia-Zubia. *Generic integration of remote laboratories in learning and content management systems through federation protocols* Pages 1372-1378.

SKILLS

- GNU/Linux.
- Python, C, Objective-C, Shell Scripting.
- Git scm

LANGUAGES

- Spanish - Excellent (Native)
- English - Good (TOEFL iBT 97/120)
- Italian - Good (Level 11/16)

Zinergia (Developer)

Zinergia is a business idea to 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 on my GitHub profile (<https://github.com/sergiobuj/>)
- Business QR Card App for iPhone (Not in store anymore)

REFERENCES

Juan C. Duque, Ph.D.

Economics Department - RiSE Group Director
Universidad EAFIT
Office: 26-217
Telephone: +574 261-9500 Ext. 9993
Address: Carrera 49 7 Sur-50
Medellín, Colombia
email: jduquec1@eafit.edu.co

Juan G. Lalinde-Pulido, Ph.D.

Software Engineering Department
Universidad EAFIT
Address: Carrera 49 7 Sur-50
Medellín, Colombia
email: jlalinde@eafit.edu.co