

Sergio Botero

Software Developer

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Profile

Engineer focused on maintenance and infrastructure of production services at Splice.

Experience in Scientific computing using Python.

Worked with an academic computer cluster doing the installation, maintenance, and support. Almost 600 cores.

Have done product development in multiple languages, recently including Elixir and Golang.

Experience

Splice.com / Backend Software Engineer

SEPTEMBER 2016 - PRESENT, REMOTE

Responsibilities involve maintenance of production services.

Perform changes to ensure availability and reliability of the service.

Feature development for a Go backend application.

Ride Inc / Software Engineer

OCTOBER 2014 - SEPTEMBER 2016, REMOTE

An engineer working on multiple backend applications. Used Javascript, Golang, and Ruby on the first version of the application. Ruby and Elixir on a second version.

Responsible for the integration of core business algorithms to allow users get matched with potential carpoolers. Achieving up to 53% more matches than the previous solution.

Promoted the adoption of automated environments for development and tests using Docker.

Created services to help resolve application bottlenecks and also integrated services when possible. Migrated our batched approach for matching, that would take approx. 2 minutes, to a per request instant approach.

Worked on the technical design and implementation of the initial iterations of a chat-based tool to manage carpools.

Part of the team responsible for adding capabilities to a carpool assistant and the availability and reliability of that service.

Universidad EAFIT / Python Developer

MARCH 2013 - JUNE 2014, MEDELLÍN, COLOMBIA

RISE Research Group:

Maintainer of the Open Source project Clusterpy (Library of spatially constrained clustering algorithms).

Algorithms used in Regional Science.

Designed and developed optimizations for Clusterpy to make the most out of the shared computer cluster available at the university. In some cases, we got results in 5 hours which before would take 3-4 days.

Developed scripts to support consultant work with local government agencies.

MIT / Visiting Scientist

OCTOBER 2012 - JANUARY 2013, CAMBRIDGE, MA

CECI Laboratory in partnership with EAFIT's Research in Computer in Education Lab:

Gateway4labs 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.

39 Inc / iOS Developer

MAY 2012 - SEPTEMBER 2012, REMOTE

Part-time Remote position.

Designed and developed new applications from requirements to implementation (defining scope and API).

A developer of new features for existing apps and providing updates based on client's requests.

Universidad EAFIT / Research Assistant

JANUARY 2011 - JULY 2012, MEDELLÍN, COLOMBIA

APOLO High-Performance Computing:

High performance computing cluster installation and networking, almost 600 cores for the first stage of the project.

Managed installation and availability of scientific software packages and applications.

Helped reduce the research time for a Tropical Disease Center in Medellín from more than a decade to almost 2 years by enabling and configuring backfilling jobs on the cluster.

Provided support to research laboratories at EAFIT and to modify and execute research experiments making use of computer clusters.

Received training on the Hubzero project at Purdue University.

R+D in Computer in Education:

Research intern position. Project to explore new technologies applied to education in rural areas.

Education

Universidad EAFIT / Bachelor's Degree, Computer Software Engineering

JANUARY 2007 - JUNE 2012, MEDELLÍN, COLOMBIA

Member of special interests groups in programming contests (ACM-ICPC).

