Sergio Botero U

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I am a motivated engineer with experience in building and maintaining digital products and the underlying infrastructure at fast-growth companies remotely. Interested in Information security.

Work

rechargepayments.com Colombia (Remote contractor), Nov 2016 - current
Backend Software Engineer: API/Backend developer on the Product team.
Engineer dedicated to developing the product and bringing an external service's feature parity into the Recharge infrastructure and API.

(GCP services, Python, Typescript, Shopify's API, GraphQL, SQL).

Technical Consulting - Software Development Colombia (Remote), Mar 2021 - Nov 2021
I supported multiple clients in different stages of their product development stage.
- I worked on adding OpenTelemetry collectors to include a legacy application and infrastructure into the client's latest monitoring and analytics tool.
- Proof of concept for a Shopify application using a serverless stack of AWS services.
- I worked on adding support for asynchronous tasks using serverless AWS services.

(AWS Services, AWS Lambda, AWS Step Functions, Python, Typescript, OpenTelemetry, Datadog, SQL).

Splice.com US & Colombia (Remote), Sep 2016 - Feb 2021
Many Roles: API/Backend Services, First Engineer in Infrastructure and SRE, Backend Engineer.
I was the second Backend Engineer after the Series A. I started the Infrastructure team to stabilize, take control, and simplify our infrastructure in AWS.
Among the team's improvements, we replaced a Consul cluster with an AWS service to simplify development and service deployment. We defined and deployed a jump box that allowed engineers to access servers and databases. We tuned the Elasticsearch cluster critical for the business, which resulted in search responses that were ~55% faster. We generalized the use of Percona to operate zero downtime database migrations.
I am currently part of a team that is improving the content ingestion pipeline and content curation tools.
I have also participated in growing the team as I have been responsible for interviewing and onboarding other members.

(AWS Services, Terraform, Ansible, Percona, Bash, Jenkins, Golang, Elasticsearch, SQL).

Ride Inc - Backend Software Engineer. Davis, CA (Remote), Oct 2014 - Sep 2016
I was a founding member of the Carpool Matching team responsible for integrating the core Carpool Matching Algorithms with the web application. We implemented a second-generation approach that achieved 53% more matches in half the time. I also worked on the Backend to provide a Chat-based tool to manage carpools.

(Ruby, Golang, Elixir, and Javascript, AMQP, Postgres, Docker, docker-compose).

Universidad EAFIT - Python Developer. Medellín Colombia, Mar 2013 - Jun 2014

I was responsible for maintaining a Python library of spatially constrained clustering algorithms used in Regional Science research.

I assisted the researchers with optimizations and adapted the library's execution to make use of the University "Supercomputer." The improvements got results in about 5 hours as opposed to 3-4 days.

(Python 2.x, Caching, Numpy, Matplotlib, QGIS Plugin.)

Universidad EAFIT - Research Assistant. Cambridge, MA, Oct 2012 - Jan 2013

I was a developer on a project to integrate many Remote Laboratory Systems (e.g., iLabs, Deusto) in different Learning Management Systems (e.g., Blackboard, Moodle.).

(Python 2.x, Flask, SQLAlchemy, SCORM.)

Universidad EAFIT - Research Assistant. Medellín Colombia, Jan 2011 -Jul 2012

I worked on the installation and application support of the first "Supercomputer" of the University.

(Bash scripting, Linux Sysadmin).

Other Experience

iOS Development: 39 Inc in 2012. App development in Objective-C with web API definition.

Certifications

Stanford University School of Engineering, Apr 2021

Stanford Advanced Cybersecurity Certificate

Education

Universidad EAFIT, Medellín Colombia, Jan 2007 - Jun 2012

Bachelor's Degree, Ingeniería de Sistemas