

Diva Martinez-Laverde

SOFTWARE ENGINEER | COMPUTER SCIENTIST

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Education

MEng in Information Engineering

UNIVERSIDAD DE LOS ANDES

Bogotá, Colombia

2017 - 2020

BS Systems and Computing Engineering

UNIVERSIDAD DE LOS ANDES

Bogotá, Colombia

2011 - 2015

Experience

Sigma Prime

Remote

CORE ETHEREUM DEVELOPER - LIGHTHOUSE MAINTAINER (RUST)

February 2020 - present

- Worked on research projects aiming to reduce bandwidth in the Ethereum network
- Helped maintain the Discovery protocol implementation of Sigma Prime, and the Rust ENR (Ethereum Node Record) implementation
- Worked on the Deneb hard fork adjusting the RPC, pubsub and sync mechanisms in Lighthouse
- Adapted the Discovery protocol and Lighthouse networking stack to provide ipv6 and dual stack support
- Re-wrote the algorithm for syncing with other peers on the network
- Added rate limiting protection to Lighthouse
- Maintained Lighthouse's RPC implementation
- Created Lighthouse's first peer management strategies

Universidad de los Andes

Bogotá, Colombia

GRADUATE ASSISTANT

January 2019 - December 2019

- Discrete Mathematics and Logic — 3 sections
- Software Verification Master's Summer Course — Teaching Assistant

Rappi inc.

Bogotá, Colombia

INTEGRATIONS DEVELOPER AND DATA SCIENTIST FOR CPG'S

July 2017 - December 2018

- Assessor for an Artificial Intelligence Project for marketing
- In charge of the mass reconfiguration of products, which reduced losses due to price differences in a 60% — Python
- Designed the data integration system with Casino Group which reduced the price and availability update interval from one day to 10 minutes — Golang
- Created the data model for semantic enrichment of products
- Designed and implemented a service for brand promotionals — Python
- Created the first A/B testing system for CPG's search engine — Python
- Audited most of the processes inside the integrations workflow — Scala
- Audited process associated to Rappi's search engine — Scala

Alianza CAOBA

Bogotá, Colombia

GRADUATE RESEARCH ASSISTANT

July 2016 - July 2017

- Developed a risk model for traffic accidents to generate preventive measures for Bogotá's Department of Mobility
- Developed a dashboard to analyze the characteristics and behavior of traffic accidents in Bogotá
- Study on taxes of urban delineation and characterization of taxpayers in order to detect anomalous declarations of constructions in Bogotá
- Automated the generation of data quality reports
- Implemented various ETL pipelines

Teaching

2019	Instructor , Discrete Mathematics and Logic	Uniandes
2017	Instructor , Discrete Mathematics and Logic	Uniandes
2016	Teaching Assistant , Computational Methods for Physicists	Uniandes
	Instructor , Integral Calculus with Differential Equations	
2015	Teaching Assistant , Discrete Mathematics and Logic	Uniandes
2014	Teaching Assistant , Discrete Mathematics and Logic	Uniandes
2013	Teaching Assistant , Discrete Mathematics and Logic	Uniandes
2012	Teaching Assistant , Algorithmics and Object Oriented Programming I	Uniandes
	Teaching Assistant , Algorithmics and Object Oriented Programming II	

Programming Languages and Tools

	<ul style="list-style-type: none">• Main development language for the past 4 years• Experience as a maintainer of large and small rust projects.• Experience working with async and network related code.		
Rust			
	<ul style="list-style-type: none">• Main scripting language to automatize tasks• Used for data cleaning and visualization tasks with tools as numpy, pandas and matplotlib• Used to develop small web applications using flask, and REST APIs using tornado		
Python			
	<ul style="list-style-type: none">• As general purpose language• Used to develop various command line interfaces		
Golang			
Other Languages	<ul style="list-style-type: none">• Scala	<ul style="list-style-type: none">• Bash	<ul style="list-style-type: none">• Java
Tools	<ul style="list-style-type: none">• Git• \LaTeX	<ul style="list-style-type: none">• Docker• Redis	<ul style="list-style-type: none">• GDB

Languages

Spanish Native

English C1

German B1