

NICOLÁS HOCK-ISAZA

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<http://blog.nhocki.com>

WORK HISTORY

Ride

Senior Software Engineer (December 2014 - November 2016)

Backend & Architecture

Ride was a ride-sharing company, where companies with big headquarters benefited from their employees sharing their own cars to go to work. It was used at places like Stanford and Delta Airlines.

As a senior software engineer at Ride I was involved most backend systems including API, billing and trip management. The API and billing systems were built on Ruby. The trip management service was built in Go.

- Integrated the algorithms designed by the R&D department with our production systems (managed by the Engineering team) and make it robust and scalable.
- Lead the re-architecture of the backend, where several services talked to each other via AMQP or HTTP with a central API that coordinated services and events.
- Worked on the Trip Management service that alerted passengers when the driver was nearby and automatically triggered billing when they arrived at their destination.

We Heart It

Software Engineer (April 2013 - December 2014)

Backend & API

We Heart It is an image based social network with over 30 million users. Users can browse the web and then *heart* images that they like.

- Worked on implementing the v2.0 of the API with RESTful endpoints.
- Built "Inspirations". An automatic collection of images of specific categories.
- Part of a 4 people team for the backend of We Heart It, built using Ruby (on Rails).
- Backend runs on multiple technologies including MySQL, Redis, Cassandra RabbitMQ among others.

Massachusetts Institute of Technology (MIT)

Visiting Research Student (October 2011 - April 2013)

Full-Time Research Student at CECI Lab

As a visiting research student at CECI lab at MIT, I had the opportunity to work with the iLab platform. A platform created to develop remote laboratories. The idea behind this is to allow people around the world to run experiments on real labs with real hardware.

- Develop the Building Energy Efficiency Lab for a Civil Engineering class.
- Develop a tool to communicate LMS systems with Remote Lab Management Systems.
- Develop a ruby client to connect to the Weblab Deusto Remote Lab Management System.

EAFIT University (Medellín, Colombia)

R&D in Computers in Education (October 2009 - July 2012)

Part-Time Research Assistant

The R&D in Computers in Education worked on improving education via technology. We worked closely with Colombia's Ministry of Education to share educational activities in remote areas of Colombia.

- Develop various projects focused on Computers in Education working closely with Colombian's Ministry of Education.
- Write API guidelines for services in projects for Medelln city projects.

EDUCATION

EAFIT University (Medellín, Colombia)

Computer Science

2007-2012

Final Cumulative (GPA): 4.4/5.0

Selected Coursework:

Computer Science: Networking · Databases · Data Structures and Algorithms · Computer Graphics · Web Intelligence & Big Data (Introduction) · Numerical Analysis · Operating Systems · Computer Architecture · Compilers · Software Engineering

Mathematics: Multivariable Calculus · Linear Algebra · Discrete Math · Physics · Statistics · Operations Research

SKILLS

- Proficient in Ruby, Golang, Javascript and Git.
- Proficient with database modeling.
- Proficient with API design and application architecture.
- Proficient in Test-Driven-Development and Behaviour-Driven-Development.
- Proficient with HTML and CSS for front-end development.
- Familiar with Photoshop, Illustrator and Fireworks.

LANGUAGES

- Spanish - Excellent (Native)
- English - Excellent (TOEIC 920)

ACHIEVEMENTS

- ACM-ICPC World Finals, Orlando Florida, Participant, 05/27/2011 - 01/06/2011
- South American Contest ACM ICPC, Universidad de los Andes, Second place, 2010
- National Programming Contest ACIS REDIS, Medellin Colombia, Eight place, 2010
- South American Contest ACM ICPC, Universidad de los Andes, Fifth place, 2009
- Third GEMIS-OE Programming Contest, EAFIT University, First place, 2009

CONTACTS

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PERSONAL LINKS

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GitHub profile: <https://github.com/nhocki>

Twitter profile: <https://twitter.com/nhocki>