

NICOLÁS HOCK ISAZA

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<http://blog.nhocki.com>

EDUCATION

EAFIT University (Medellín, Colombia)

Computer Science

2007-2012

Final Cumulative (GPA): 4.4/5

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

WORK HISTORY

Massachusetts Institute of Technology (MIT)

Visiting Research Student (October 2011 - Present)

Full-Time Research Student at CECI Lab

- Develop a remote laboratory using the iLab Shared Architecture (Building Energy Efficiency Lab).
- 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.

StackBuilders (February 2012 - December 2012)

Ruby on Rails Developer

- Work for a different sort of clients, using Ruby on Rails, Pivotal Tracker, Github and some agile methodologies.

EAFIT University (Medellín, Colombia)

R+D In Computer in Education (October 2009 - July 2012)

Part-Time Research Assistant

- Develop a social network for professors at the university.
- Develop a web application for the Colombian Ministry of Education called "Banco de Proyectos"

EAFIT University (Medellín, Colombia)

University Library (October 2010 - June 2011)

Part-time Developer

- Design and develop a Book-Trade social application.

EAFIT University (Medellín, Colombia)

SIRI Research Project (January 2008 - 2009)

Part-Time Research Assistant

- Develop a software that creates the Collatzio (comparison) from different editions of the same text.
- Tune-up the algorithm to compare long texts.
- Design and develop the UI for the software.

SKILLS

- Proficient in software development using Ruby.
- Proficient in Web Development using Ruby on Rails.
- Proficient in Test-Driven-Development and Behaviour-Driven-Development.
- Proficient with HTML, Javascript, Ajax and CSS.
- Familiar with Bash.
- Familiar with GNU/Linux and Mac OS X.
- Familiar with technologies such as Git and SVN.
- Familiar with Photoshop, Illustrator, Fireworks, Flash and Flex.

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

John W. Belcher, Tenured Professor. (MIT)

Director of the Center for Educational Computing Initiatives

- jbelcher@mit.edu - (+1) 617 253-4285

Claudia Mara Zea Restrepo, M.Ed. (Universidad EAFIT)

Director of Proyecto 50, Center for Innovation and Technology in Teaching and Learning.

- czea@eafit.edu.co - (+57)310 508 06 63

Juan Guillermo Lalinde Pulido, Ph.D. (Universidad EAFIT)

Professor of the Data Structures, Algorithms and Operating System lectures.

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Helmuth Trefftz Gmez, Ph.D. (Universidad EAFIT)

Chair of Computer Science Department.

- htrefitz@eafit.edu.co - (+57)301 371 41 32

PERSONAL PROJECTS

Open Source Projects

All my open source projects can be found at my GitHub profile (<https://github.com/nhocki/>)

- **DeustoRB.** Ruby client to talk to Weblab Deusto, a remote lab management system (<https://github.com/lms4labs/deustorb>).
- **Propose-it.** Ruby on Rails application that helps us determine what should we do next. People propose something and the team votes for the next-iteration's work. (<https://github.com/nhocki/propose-it>)
- **Distributed-Tic-Tac-Toe.** A Distributed Tic Tac Toe game written in Ruby (with DRb) for a college project. (<https://github.com/nhocki/Distributed-Tic-Tac-Toe>)
- Collaborator at **Cómo Vamos?** Rails app to keep track of solutions to ICPC problems. (<http://comovamos.factorcomun.org>)
- **Director.** Sinatra-based app that will help you manage broken links when moving one application from one domain to another. (<https://github.com/nhocki/Director>)
- **Make Permalink Gem.** Ruby gem to create human and url friendly permalinks from an object method (https://github.com/nhocki/make_permalink)