

# NICOLÁS HOCK ISAZA

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## 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

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## 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 Computers 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.

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## 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

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

## ACHIEVEMENTS

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- 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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**John W. Belcher, Tenured Professor.** (MIT)

*Director of the Center for Educational Computing Initiatives*

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

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

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**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.*

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## PERSONAL PROJECTS

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