

# NICOLÁS HOCK ISAZA

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## EDUCATION

### **EAFIT University (Medellín, Colombia)**

#### **Computer Science**

2007-Current

Current Cumulative (GPA): 4.4/5

Selected Coursework:

**Computer Science:** Computer Graphics · Programming Languages · Data Structures and Algorithms · Automata & Computation · Numerical Analysis · Databases · Operating Systems · Computer Architecture · Compilers · Software Engineering

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

### **Universidad de Antioquia (Medellín, Colombia)**

#### **Mathematics**

2008-2010

Retired for Internship

Selected Coursework:

**Mathematics:** Real Analysis · Linear Algebra · Logic · Set Theory · Differential Equations · Number Theory

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## WORK HISTORY

### **EAFIT University (Medellín, Colombia)**

#### **R+D In Computer in Education** (October 2009 - Present)

##### **Part-Time Research Assistant**

- Develop a social network with Ruby on Rails for the University
- Develop a social network for the Colombian Ministry of Education called "Banco de Proyectos"
- Develop a Knowledge Management Community for TESAmerica (Colombian engineering organization). This project was fund by Colciencias (Colombian National Science Fundation)

### **EAFIT University (Medellín, Colombia)**

#### **University Library** (October 2010 - Current)

##### **Lead Developer**

- Design and develop a Book-Trade social network
- <http://truequeliterario.com/>

### **EAFIT University (Medellín, Colombia)**

#### **SIRI Research Project** (January 2008 - 2009)

##### **Part-Time Research Assistant**

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

### **EAFIT University (Medellín, Colombia)**

#### **Seminar for Programming Contest** (January 2009 - Current)

##### **Director and Teacher**

- Teach simple and advanced data structures
- Teach advanced algorithms for programming contest

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## SKILLS

- Proficient in software development using C/C++ and Ruby.
- Proficient in Web Development using 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)

## CONTACTS

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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)

*Professor of Computer Graphics. Chair of Computer Science Department*

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## 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

## ENTREPRENEUR / STARTER PROJECTS @ ZINERGIA

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**Zinergia** (Current)

*Co-Founder and Lead Developer*

Zinergia is a small business I founded about two years ago with a friend of mine. Right now we are a 6 people team (all students) that build web and mobile applications. You can find us on <http://zinergia.co>

### *Latest Finished Projects*

- **Zinergia Website.** Our company website. I was in charge of the HTML+CSS+JS (<http://zinergia.co>)
- **Semar Motion Design.** Website for motion artist Sebastián Mejía (<http://sebasmejia.com>)
- **YKK Jen Colombia.** Company and E-commerce website for a Zipper company. (<http://ykkjen.com.co>)
- **IV Colombian Biotechnology Congress.** Event website design and customization. (<http://cuartocongresobioteecnologia.com/>)

### *Current Projects*

- **Moda Rosa.** Website for fashion mall. <http://modarosaweb.herokuapp.com>

## PERSONAL PROJECTS

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### *Open Source Projects*

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

- **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. (Project site: <http://propose-it.herokuapp.com>. Project Code: <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](https://github.com/nhocki/make_permalink))