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:** Networking · Databases · Data Structures and Algorithms · Computer Graphics · Programming Languages · Automata & Computation · Numerical Analysis · 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

WORK HISTORY

Massachusetts Institute of Technology (MIT)
Visiting Research Student (October 2011 - Present)
Full-Time Research Assistant at CECI Lab

- Develop a remote lab using the iLab Shared Architecture

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

SKILLS

- Proficient in software development using C/C++ and 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)

Contacts

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

- jlalinde@eafit.edu.co - (+57)311 349 81 74

Helmuth Trefftz Gmez, Ph.D. (Universidad EAFIT)
Professor of Computer Graphics. Chair of Computer Science Department

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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

Entrepreneur / Starter Projects @ Zinergia

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://cuartocongresobiotecnologia.com/`)
- **Moda Rosa Centro Comercial**. Website for clothing mall (`http://modarosa.com.co/`)

Personal projects

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.heroku.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`)