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EDUCATION

Universidad de los Andes, Bogotá, Colombia
Master in Computer and Systems Engineering - ABET Certified Program, expected graduation June 2014 **GP:** 3.2/4.0
Relevant Courses: Model Driven Software Development, Big Data and content analysis, Agile methodologies on Software Development.

Universidad de los Andes, Bogotá, Colombia
Bachelor of Science in Computer and Systems Engineering - ABET Certified Program, expected graduation March 22/2013 **GP:** 3.32/4.0
Relevant Courses: Software Development, Software Architecture, Data Structures, Object-Oriented Programming

Universidad de los Andes, Bogotá, Colombia
Bachelor of Science in Industrial Engineering - ABET Certified Program, expected graduation March 22/2013 **GP:** 3.32/4.0
Relevant Courses: Advance Optimization, Graph Optimization.

EXPERIENCE

Universidad de los Andes, Bogotá.   February 2013- July2013
Graduated Assistant
Help with the development of a framework to solve scheduling problems. Add to the framework different heuristics and neighbor calculators. Test the modules developed. Write papers of investigation about the work done in the framework.

Universidad de los Andes, Bogotá.   January 2012- November 2012
Teaching Assistant in the course Algorithms and Object-Oriented Programming I
Support students in different introductory programming laboratories. Grade student's exercises throughout the course.

Universidad de los Andes, Bogotá.   August 2012- November 2012
Teaching Assistant in the course Algorithms and Object-Oriented Programming II
Support students in different introductory programming laboratories. Grade student's exercises throughout the course.

Taurus Systems S.A, Bogotá.   June 2011 - July 2012
Programmer
The design and implementation of a web designer for printing formats in HTML5. Design and implementation of a tool to present charts and diagrams in HTML5

MAJOR PROJECTS

Thesis Computer Systems Engineering   Second Semester 2012
A domain-specific language for definition of scheduling problems in the context of cargo vehicles.
Create, design and implement a domain-specific language where an engineer can describe the domain of a scheduling problem. Using a model driven approach this language and an instance file (with the information of the problem) is transformed (by mean of a model to model transformation) to a data structure. And by means of some heuristics the problem is solved.
Grade: 4.5/5.0 **Technologies Used:** Java, EMF, ATL, EMFTEXT.

Industrial Engineering Thesis   First Semester 2012
Design and Implementation of an API for graph problems.
Create, design and implement an API in java to solve parametric max flow and min cost flow problem in graphs. This API uses algorithms in C/C++ develop by Dr. Andreas M. Lobel and Andrew Golberg. **Grade:** 5.0/5.0
Technologies Used: Java, C/C++, JNI (Java native interface)

Web Application
HorarioLab   First Semester 2012
Developed a Web Application to help students plan their schedule. Part of the group in the project and software developer/architect. Application Site: http://horario.uniandes.edu.co
Technologies Used :HTML, JavaScript, JQuery, CSS, PHP and MySQL.

TECHNICAL SKILLS

Programming Languages ordered by level of proficiency

Java	4 years	Proficient
SQL	2 years	Proficient
HTML, HTML5, CSS	1 year	Intermediate level.
JavaScript	1 year	Intermediate level.
C++	1 year	Intermediate level
C	1 year	Intermediate level
Mosel	1 year	Intermediate level
EMF, EMFText	1 year	Intermediate level
ATL	1 year	Intermediate level
Rubby on Rails	6 months	Intermediate level
Acceleo	6 months	Beginner level

Platforms: Windows 7, Linux (user), Glassfish and JEE Environments
RDBMS: Oracle Database (1 year), Hadoop (6 months)

AWARDS AND LEADERSHIP

- Member and Cofounder of the current Association of Computing Machinery (ACM) Chapter at Universidad de los Andes. (2011-2013)

LANGUAGES

- Native Spanish Speaker.
- Good skills in English.
  - TOEFL (*Test of English as a Foreign Language)*: 95/120.