

JUAN CAMILO CORENA

E-mail: investigacion@juancamilocorena.com

EDUCATION

- *Masters in Systems and Computing engineering – University of Los Andes (Bogotá, Colombia). GPA 4.60 in a 5 point scale.
Graduation Date: April 30th 2008.*
- *Systems and Computing Engineer - University of los Andes (Bogotá, Colombia). GPA 3.95 in a 5 point scale.
Graduation date: March 17th 2007*

LANGUAGES

- *Spanish – Native. English – Advanced.*

SKILLS

- *Highly enthusiastic graph algorithms, dynamic programming, linear programming, error correcting codes, stringology algorithms, cryptography and secure software development.*
- *Software Tools and programming languages: C, C++, Java, SQL, PHP, Mosel, Visual Studio, Eclipse, SQL, Linux RedHat/SuSE, FreeBSD .*

AWARDS

- *Mario Galán Gómez scholarship, awarded by the National Colombian Oil Company (ECOPETROL), for outstanding results in the Colombian exam for higher education entrance – 2002.*
- *Several participations at the ACM-IBM South American North region programming contest, including 2nd place 2003 and 4th place in 2006 and 2007.*

EMPLOYMENT HISTORY

- *Research assistant at Universidad de los Andes Advanced Engineering and Computing Center MOX. August 2006-June 2007. The work included Grid computing middlewares, Linux and Windows system management and parallel computing.*
- *Computer networks and information security instructor and investigator at Polytechnic Grancolombiano since July 2007. Right now I am doing research about cryptography and network security.*

PROJECTS AND PUBLICATIONS

- *Database connectivity designer of MESUIS (Medical and Surgical Information System), a database system aimed to ease the process of collecting data of patients in intensive care units. The design proposed helped the development team to communicate easier with the database; it involved use of stored procedures, indexes and triggers. The tools used were SQL Server 2000 and Microsoft Visual C++.*
- *Instructor at MUA, a group aimed to train students for ACM-IBM collegiate programming competition.*
- *SIDP a p2p protocol for secure information dispersal and retrieval (Master's thesis). A decentralized system for secure data storage and retrieval using different information dispersal algorithms and secret sharing schemes, the work in error correction codes and cryptographic protocols was extensive and made me realize how much work is involved in achieving secure communications, this project is now being turned into a global scale data storage system.*
- *Parallel big integer factorization using Boinc and GGNFS. A Distributed implementation of the fastest known factorization algorithm to be used on RSA numbers.*
- *Secure email using third party infrastructure. Appeared at the IX Colombian national*

*network security conference*¹.

1 <http://www.acis.org.co/index.php?id=1341>