

JORGE IVÁN RODRÍGUEZ ECHEVERRÍA

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EDUCATION

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|------------|---|--------------------|
| PhD | Ghent University
PhD computer science engineering
Student
Advisor: Sidharta Gautama, prof. dr. ir. | May 2016 - Present |
| MS | Escuela Superior Politécnica del Litoral
Master in Management Information Systems
Thesis: "Designing methodology for data migration between critical applications in the Guayaquil's town hall"
Advisor: Lenin Freire, Msig. | Dec 2012 |
| BS | Escuela Superior Politécnica del Litoral
Computer engineer specialized in technological systems | Jul 2007 |

TEACHING EXPERIENCE

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| Escuela Superior Politécnica del Litoral , Guayaquil, Ecuador
Professor , Electric and Computing Engineering Faculty | May 2008 to Apr 2016 |
| <ul style="list-style-type: none">• Taught Programming Fundamentals, an undergraduate course averaging 30 students per semester, covering the following topics: C Programming, structure programming, functions, arrays, libraries, pointers, characters and string, files. Developed quizzes, exams, and homework. | May 2008 to Sep 2011 |
| <ul style="list-style-type: none">• Taught Object Oriented Programming, an undergraduate course averaging 60 students per semester, covering the following topics: Java Programming, object-oriented programming, object-oriented analysis and design, user interface design. Developed quizzes, exams, and homework. Checking the syllabus to cover accreditation standards. Coordinated grading and labs with a team of 3 professors | Oct 2010 to Sep 2014 |
| <ul style="list-style-type: none">• Taught Database Systems I, an undergraduate course averaging 20 students per semester, covering the following | May 2011 to Sep 2013 |

topics: modeling database, normalization, Transact SQL, PL/SQL

Developed quizzes, exams, and homework

- Taught Web Applications Development, an undergraduate course averaging 35 students per semester, covering the following topics: web standards, client-side and server-site programming, web architectures, web services, MVC model, state management, web security
Developed quizzes, exams, and homework
Checking the syllabus to cover accreditation standards
Oct 2011 to Feb 2016
- Taught Data Structures, an undergraduate course averaging 30 students per semester, covering the following topics: data types, data structures: list, stack, queue, map, trees, graph.
Developed quizzes, exams, and homework
Checking the syllabus to cover accreditation standards
Coordinated grading and labs with a team of 2 professors
May 2013 to Feb 2016

Undergraduate Students Advised

Carla Salvatierra, Felix Rivas, "Social web application for labeling fragments of Youtube videos applying the concept of games with a purpose". Jul 24, 2013

Carla Hurel, Andrea Caceres, "Android application that used wi-fi technology to guide students to their classrooms in ESPOL". May 20, 2015

PROFESSIONAL EXPERIENCE

Inspector of Use Cases National System Public Finance (Contract Position)

ESPOLTECH, Guayaquil, Ecuador

Nov 2013- Mar 2014

Description: The inspection was performed in order to detect and classify the different types of errors in the system requirement's definition, to correct them and performing the software measurement process.

Land Use System development (Contract Position)

M.I. Municipalidad de Guayaquil, Guayaquil, Ecuador

2012

Description: By this system, citizens can check their property's land use. The system was developed in ASP.NET and deployed at November 2012.

<https://tramites2.guayaquil.gob.ec/usodesuelos/Consultas/SUS00001.aspx>

Senior software developer (Contract Position)

M.I. Municipalidad de Guayaquil, Guayaquil, Ecuador

2008 - 2010

Description: Application Developer (Web and Windows) using .NET platform in Guayaquil's town hall.

Machine Learning with Big Data

University of California, San Diego. Coursera. May 4th, 2017

Description: Design an approach to leverage data using the steps in the machine learning process. Apply machine learning techniques to explore and prepare data for modeling. Identify the type of machine learning problem in order to apply the appropriate set of techniques. Construct models that learn from data using widely available open source tools. Analyze big data problems using scalable machine learning algorithms on Spark.

Introduction to Big Data

University of California, San Diego. Coursera. March 21st, 2017

Description: Identify what are and what are not big data problems. Architectural components and programming models used for scalable big data analysis. Install and run a program using Hadoop.

Getting started with High-Performance Computing 2016

Ghent University, Belgium. Jun 2016

Description: Introduction to the UNIX command line, scripting and high-performance computing (HPC) as a stepping stone towards the use of computer clusters for solving advanced computation problems. Python scripting. Introduction to Python. Scientific computing with pylab: numpy, scipy and matplotlib and Jupyter Notebook

Data analysis tools

Wesleyana University, Coursera. Jun 14, 2016

Description: develop and test hypotheses, variety of statistical tests (ANOVA, Chi-Square, and Pearson correlation analysis), strategies to know how to apply them, use of statistical software packages (Python).

Data management and visualization

Wesleyana University, Coursera. Oct 12, 2015

Description: Manage, describe, summarize and visualize data, choose a research question based on available data and engage in the early decisions involved in quantitative research, describe variables and their relationships through frequency tables, calculate statistics of center and spread, and create graphical representations.

Microsoft SQL Server 2012 Business Intelligence

SIPECOM, Padre Aguirre / Malecón 2000, Guayaquil, Ecuador. Oct 12, 2015

Description: Creating ETL process using Integration Services, OLAP cubes using Analysis Services and reports with Reporting Services.

Geographic information systems and infectious diseases

Upstate Medical University and ESPOL. Ago 2014

Description: Using QGIS like tool to show cases of dengue on a map

Web applications development ASP.NET MVC4

SIPECOM, Padre Aguirre / Malecón 2000, Guayaquil, Ecuador. May, 2014

Android mobile applications

Microsoft Academy – ESPOL, ESPOL. Feb, 2013

LANGUAGES

English: Intermediate listener, speaker, reading and writing

Spanish: Native Language

Portuguese (BR): Advanced listener and speaker, intermediate reading and writing. Celpe-Bras Intermediate Certification, April 2014.

Dutch: Learning (beginner).

COMPUTER SKILLS

Programming: C#, Java, Python, ANSI C, ASP.NET, Transact-SQL, PL/SQL

Applications: Spyder, Microsoft Visual Studio, Matlab, MySQL, Netbeans

Platforms: Windows, Linux

REFERENCES

Dr. Ana Tapia, Miss.

Electric and Computing Engineering Faculty

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Dr. Daniel Ochoa, Mr.

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