

DIEGO ANDRES DIAZ ESPINOZA

Santiago, Chile. diegodiazespinoza@gmail.com

EDUCATION

Universidad de Chile, Faculty of Physical and Mathematical Sciences
Bachelor of Science in Computer Science **2010**
Thesis: "Implementation and comparison of descriptors for video search"
Distinction

Universidad de Chile, Faculty of Sciences
Bachelor of Arts in Science **2004**
Thesis: "Cellular Automaton as simulation systems"

AWARDS

CONICYT fellowship **2010 – 2011**
Honor Student **2008 – 2010**

TEACHING EXPERIENCE

Universidad de Chile, Faculty of Physical and Mathematical Sciences
Teaching Assistant – to Professor Nancy Hitschfeld K. in "Computational Geometry" **2009**
Graded written works, collaborated on works and exams development and administered grades.

Teaching Assistant – to Professor Cecilia Rivara in "Computer Graphics" **2008**
Graded written works, collaborated on works and exams development and administered grades.

Teaching Assistant – to Claudio Gutierrez in "Design and Analysis of Databases" **2008-2010**
Graded written works, collaborated on works and exams development and administered grades.

Teaching Assistant – to Alexis Pena in "Statistics" **2006-2007**
Graded written works, collaborated on works and exams development and administered grades.

RELATED EXPERIENCE

CMM - Center for Mathematical Modeling, Faculty of Physical and Mathematical Sciences, Universidad de Chile
Project Engineer – Present

Autofact SPA, Santiago, Chile
DevOps Engineer **2015 – 2016**
Developed multiple tools for keep an easy and agile operation of the company system; including databases connections and queries, server monitoring, status of apps and services among others. Programming languages were mostly Java with PlayFramework, Linux Bash Programming, several Pentahoo routines and MySql databases.
Monitored multiple systems for operations purposes, using NewRelic and Linux Bash Programming.
Designed and implemented multiple protocols and practices for development process workflow; GitFlow for improve Git practices and Jira as an agile project management with BitBucket integration.
Designed and supported a framework development to get information from several web sites related to cars market (web site scrapping) including an image plate detection and recognition system; using Java with Javaanpr, OpenCV, C++, PlayFramework among others.

Movix, Santiago, Chile
R&D Engineer **2013 – 2014**
Redesigned, implemented and tested multiple module systems for web services, using Java, Java Enterprises, PostgreSQL, VirtualBox, Vagrant, Playframework and Linux Bash programming.

Researched on cross-platform development for smartphones apps using Xamarin Platform (C#) including mockups development as minimum viable products.

Designed and developed an experimental environment for testing optimized strategies on SMS based subscription billing, using Java, PostgreSQL, Vagrant, PlayFramework and Linux Bash Programming.

Developed multiple scripts for database, operating systems and services platform automation using Linux Bash Programming and Java for the correct support and maintenance of several platforms.

Timining, Santiago, Chile

R&D Engineer

2011 – 2013

Designed and developed a software for “block caving mining” planning method for El Teniente Codelco division, using C++, Qt4 and a proprietary OpenGL based API. Tested and deployed a 3D Visualization and simulation, GUIs, integration with internal databases and local optimization for miner’s planners.

Skillup, Santiago, Chile

R&D Engineer

2010 – 2011

Researched and developed a people counter system software and hardware based on motion detection video and image analysis for retail marketing using C, C++, Java, OpenCV, Linux Bash Programming and MySql.

Statistical data analysis for databases using Linux Bash Programming, Ruby and MySql.

SCIAN, Santiago, Chile

Software Developer

2009

Designed and developed an ImageJ plugin using Java and ImageJ API.

CEM-BEM, Santiago, Chile

Web Developer

2009

Designed and developed a CSM platform including informative web site, courses administration for teachers and students, news and teacher-student interaction using PHP, MySql, Html and Flash.

PUBLICATIONS AND PAPERS

Text-Based and Content-Based Image Retrieval on Flickr: DEMO

Demo software presented at SISAP '09 Second International Workshop.

2009

Combining Text-Based and Content-Based Image Retrieval on Flickr

Paper presented at SISAP '09 Second International Workshop

2009

PROGRAMMING LANGUAGES

(in order of importance)

General Purpose: Java, C++, C

Databases: PostgreSQL, MySql

Scripting languages: Linux Bash Programming, PHP, JavaScript, JQuery

Framework: PlayFramework

Libraries: OpenCV

IDE: IntelliJ, Netbeans, Eclipse,

LANGUAGES

Spanish – Native

English – Speak fluently, read and write with high proficiency