

Eduard López García

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EDUCATION

DEGREE IN COMPUTER ENGINEERING

2017

Eindhoven University of Technology (TU/e) (THE NETHERLANDS) (Teaching in English)

- Featured Data Engineering Project:
 - Creation of a filtering, analysis and reconciliation (fusion) system for all digitized public records in North Brabant Province from the 16th century to the present day. Use of NoSQL database technologies such as MongoDB (document oriented) and Neo4j (Graphic oriented). The resulting temporary network consisting of ~15M nodes and ~23M relationships between nodes.
 - github.com/eduardlopez/BHIC-Genealogy

DEGREE IN COMPUTER ENGINEERING

2012-2017

Autonomous University of Barcelona (UAB) Faculty of Engineering

- Branch of specialization in Computer Science, particularly in Machine Learning and High Performance Computing.
- Technologies I'm familiar with:
 - In Machine Learning: with specialized libraries such as scikit-learn, the SciPy ecosystem (Matplotlib, Numpy, etc), PyBrain and MATLAB
 - In Parallel Computing (under C/C++): OpenMP, Cilk, MPI, CUDA, gcc/g++ and icc compilers, profilers such as Gprof, perf, VTune, nvpp (NVIDIA Visual Profiler)
 - Example: swallow-water-simulation-parallel-multiprocessing github.com/eduardlopez/swallow-water-simulation-parallel-multiprocessing
 - Example: quicksort-parallel: github.com/eduardlopez/quicksort-parallel
 - In Embedded Systems: VHDL, FreeRTOS, Arduino, Atmel AVR and ASM
 - Example: FreeRTOS-Car-Dashboard github.com/eduardlopez/FreeRTOS-Car-Dashboard
 - In Computer Graphics: Extensive experience in the use of Processing.org technology and I have worked with OpenGL under C++
 - Example: sound-to-3D: github.com/eduardlopez/sound-to-3D
 - Familiarity in working remotely via terminal with Unix-like systems, with clustered queues and Google Cloud Platform (~AWS)
 - I have also studied Computer Vision and Algorithms in the field of Robotics and have a high interest in human-machine interaction.
- Final degree project on the prediction of manufacturing faults in the production line with a real dataset with ~4K features and ~1M comments. With emphasis on the generation of synthetic data.

TECHNOLOGICAL BACCALAUREATE

2011

INS Terrassa

- Final baccalaureate project: Construction of a robotic arm (~80 cm high) with 5 degrees of freedom with independent power supplies for each motor, with the possibility of recording and reproducing the movements with a separate control terminal from the robot. All built with Open Source platforms

CONTINUING EDUCATION

Courses: **DEEP LEARNING SPECIALIZATION**

In progress

By Andrew NG & NVIDIA Deep Learning Institute – deeplearning.ai – MOOC – Coursera

Course: **REAL-TIME ANALYTICS WITH APACHE STORM – UD381**

2016

Twitter Inc. – MOOC – Udacity

Course: **SCALABLE MACHINE LEARNING WITH APACHE SPARK – CS190.1x**

2015

University of California, Berkeley – xMOOC – BERKELEYx

- Certification URL: goo.gl/oU15aU

Course: **CIRCUITS AND ELECTRONICS – 6.002x**

2012

Massachusetts Institute of Technology – xMOOC – MITx

- Certification URL: goo.gl/HKCyqn

PROFESSIONAL EXPERIENCE

GOOGLE GLASS APP DEVELOPER

2013-2014

ITGLAS. APP development company for Google Glass

- Design and creation of an application for Google Glass to increase speed and readability on small screens
- Project presented to ONCE
- Publications:
 - goo.gl/Zm2Qd6
 - goo.gl/UMPZD9

PARTICULAR TEACHER

2013-2016

Courses in new technologies

TRADER AND TRADING SOFTWARE DEVELOPER

2011-2012

- Creation of algorithms for automated trading
- Familiarized with the ProRealTime platform
- Design and construction of a physical buying and selling terminal linked to the broker allowing to select the volume of buying or selling and execute the order.

WEB DEVELOPER

2009-2016

Freelance web development of sporadic projects. *Full Stack Web Developer*

- Made under the LAMP Stack (Linux, Apache, MySQL, PHP), Flask (Python framework) and Google App Engine

SKILLS AND INTERESTS

TecnoUAB

Founding Member • Association of students of the UAB - Faculty of Engineering • Treasurer position

- Realization of several projects, such as pre-payment courses for students, assembly of a 3D printer, realization of an Artificial Intelligence contest for the homonymous course consisting of making the best algorithm that is able to win in the proposed game.
- Participation in the Hackathon of Banco Sabadell "Instant Banking Hack Day" and in the Mobile World Congress
- Support to the organization and participation of the annual technology fair of the Engineering Faculty of the UAB: MEMEnginy
- Responsible for the creation of the association's branding.
 - Creation of the logo with generative art (algorithmic): github.com/eduardlopez/TecnoUAB-branding

Driving license: B1

Native Spanish and Catalan. English certifiable: B1. In preparation for C1

Some of the programming languages I've worked with: **Python, C, C++, Java, MATLAB, VHDL, Arduino, Processing.org, PHP, R, Ruby, JavaScript, TypeScript, SQL, ASM (Assembly language)**

Markup/description languages: **HTML, CSS, XML, JSON**

Version control: **Git**

Office automation & miscellaneous: **Suite Microsoft Office, Suite LibreOffice/OpenOffice, Suite iWork, LaTeX, EAGLE PCB Desing Software, SketchUp, Docker, Ionic Framework, Conda (environment management)**

Operating Systems: **Microsoft Windows, Based on GNU/Linux, Mac OS X, FreeRTOS**