

Lautaro Villalón

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EDUCATION

Universidad Simón Bolívar

Bachelor of Science in Computer Engineering

Graduating in December 2019

GPA 4.168/5

Relevant courses:

- Introduction to AI & Machine Learning
- Programming Languages
- Database Design

University of Toronto

Bachelor of Science in Computer Science – Semester Abroad

08/2014 – 12/2014

MAJOR PROJECTS

ARTIVIRT

05/2019 - present

Developer – A motion capture module of the NEUROVIRT rehabilitation system for patients with neurological damage

- Developed as a videogame in Unity3D with C# scripts.
- Implemented using the Qualisys Miquis motion capture system.
- Tests done in the Miguel Servet Hospital in Zaragoza, Spain.

Pathological Myopia Classifier from Fundus Images

05/2019 – 07/2019

Lead Developer – A machine that classifies fundus images as positive or negative for pathological myopia

- Developed with FastAI using a transfer learning technique in a Google Colab notebook.
- Preprocessed the images using OpenCV 4.1 and Python 3.7.
- Test set results showed a sensibility of 1 and a specificity of 0.68.

BuscaMed Venezuela – [buscamed.org.ve](#)

09/2018 – 12/2018

Lead Developer – A web application where users can search for medicines in Twitter, websites and subscribed pharmacies

- Designed and developed web application and its server using Django (Python 3.6).
- The backend was implemented as a RESTful API based on PostgreSQL.
- Developed a client-side service to read CSV files with jQuery and improved a Tweet classification machine.

Videogame for AI tests

09/2018 – 12/2018

Lead Developer – A 2½D Pac-Man based videogame for tests using Unity3D

- Implemented several A.I. techniques, such as steering behaviors, A*, FSM in C# to test automatic movement of characters.

VOLUNTEER WORK

Ruedala Simón

08/2018 – 04/2019

Bike mechanic, instructor and computer manager – Public bike service.

- Configured a MS Office Access database to register and access all the data needed by the organization.
- Obtained a domain, hosting and DNS service for the organization's website with a 0\$ budget.
- Taught children in various communities to ride and fix bicycles.

Unidad de Laboratorios USB

09/2017 – 03/2018

Developer – Management system for the laboratory centre of the university.

- Co-led a five-people team to develop a management system with Web2Py (Python 2.7), PostgreSQL and JavaScript.
- Designed the system that allows laboratories to post services and communicate to request services from each other.

Club de Audio USB

2015 – 2016

Founding Vice-President – Audio engineering club of the university

- Founded the first audio club in the university, organized teams to develop several promotion activities and built a recording studio from scratch for students.

SKILLS

PROGRAMMING LANGUAGES

4 years: Python
2 years: Java, JavaScript, SQL
6 months: C#, Haskell

TECHNOLOGIES

Keras, FastAI, Numpy, Pandas, PostgreSQL, MySQL, Neo4j (NoSQL),
Git, Heroku, Unix/Bash, Unity3D, Django, JQuery, HTML, CSS

LANGUAGES

Spanish: Native
English: Bilingual

PERSONAL REFERENCES

Prof. Carolina Martinez – [martinez@usb.ve](#)

Prof. Carolina Chang – [cchang@usb.ve](#)