

MARCO ANTONIO GUTIÉRREZ CÁRDENAS, COMPUTER SYSTEMS ENGINEER
STUDENT AT UNIVERSIDAD DE LAS AMERICAS PUEBLA (UDLAP)



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Puebla, México

EXPERIENCE (EDUCATION)

Software Engineering UDLAP

Aug 2016 – Present

- Programming of a Scrabble desktop application using software design patterns
- Implementation of a wrapper for the JMusic library making it more user friendly in order to give a tutorial at a congress
- Creation of a MIDI parser as a first part of my thesis project

Machine Learning Engineering UDLAP

Aug 2016 – Present

- Naïve Bayes Implementation for the identification of spam/ham twitter messages
- K-means demonstration using JavaFX and random points
- Development of an AI agent for Fanorona, a lesser-known strategy game

TECHNICAL SKILLS

Backend Java Stack

System Programming C

Frontend JavaScript Stack

LANGUAGE PROFICIENCY

English (FCE)

German (A2, certified)

French (A2)

ADDITIONAL COURSES

The Web Developer Bootcamp **Udemy**

Oct 2018 – Dec 2018

Lean Systems **UDLAP**

Jan 2019 – Apr 2019

The Ultimate MySQL Bootcamp **Udemy**

Jul 2019 – Present

PROJECTS

Developed a VST Plugin for Algorithmic Composition as a Thesis Project – Honors

Created a VST plugin that can work together with Digital Audio Workstations for the acceleration of music creation using algorithmic composition

Creating Creators: Algorithms for Music Composition – Honors

Developed a wrapper for the JMusic library in order to make the tutorial more user friendly

Mobile App Development for Volunteering Program at the University – Social Service

To alleviate unnecessary work from administrative workers as well as promoting volunteering all together

AI for a Strategy Game – University Course

Fanorona strategy game as a desktop app with an intelligent agent using MiniMax technique

HONORS

- Member of the honors program since 2nd semester
- Participated in the delivery of a tutorial in the 2019 International Conference on Electronics, Communications and Computers (CONIELECOMP)
- Cumulative grade average of 9.9 (Mexican Scale)

References and full transcripts of code will be provided upon request. **Anticipated graduation on May 2021**