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Portafolio dimekai



My channel: Dile al Kai

# JESUS KAIMORTS DÍAZ MEDINA

#### **EDUCATION**

Escuela Superior de Cómputo – Instituto Politécnico Nacional

Bachelor of Science in Computer Systems Engineering

E.T.S Ingeniería Informática - Universidad Politécnica de Valencia, Spain

Exchange program student PROMOE 2019-2020.

Enrolled in Artificial Intelligent subjects like Data Mining, Machine Learning and others related with Cryptography and Distributed Systems.

Graduating in: December 2021

GPA: 9.02 out of 10

Start date: September 2019

Finish date: February 2020

#### **WORK EXPERIENCE**

Banco de México

Intern at General Department of Economic Research (DGIE).

- Data Engineer's intern-assistant whose main tasks were: Integration data, data collections, data cleaning and data preparation for ETL using Pentaho, SQL and Pyramid.

Start date: March 2020

End date: September 2020

Banco de México

Systems Analyst at General Department of Economic Research (DGIE).

Responsible for data extraction, transformations and data loading using the ETL tool Pentaho
Kettle. Development of queries, tables and views using Oracle 11g. Design and development
of Cubes in Analysis Services and dashboard visualization using Pyramid.

### Start date: November 2020.

## **MAJOR PROJECTS**

Robot Agency
Final Project for the Design and Application of Distributed System subject by 1 person
Distributed System using Java implementing a CORBA architecture.

Fall 2019

End date: Now

Responsable by analysis, design and development of a robot simulator graphical interface using the Java. The purpose of this
project was to reach an objective within a scenario with obstacles, avoiding collapsing with them. Using a robot group manager
that allows registration, fault tolerance, robot removal, tracking and monitoring using CORBA distributed objects.

Travel System Agency.

2020

Final Project to the Data Base subject.

- Design and implementing of the normalized (3NF) data base using MySQL with Work Bench tool for the model
- Responsable for the back-end and front-end funcionality for the modules of: log-in, sign-up, administrator interface, credit-card verification (very basic), main and trip reservation screens, using JFrame and JDBC Java libraries.

### ESCOMIPS: 16-bits microprocessor en VHDL.

Final Project for the Computer Architecture subject developed by 2 people.

Spring 2019

 $Design \ of \ the \ microprocessor \ using \ a \ RISC \ architecture \ and \ development \ of \ the \ microprocessor \ microinstructions.$ 

- Team-working to the development of the modules: Control Unit, Stack, Program Memory, Log File, Data Memory, Arithmetic-Logical Unit (ALU), Sign and Address Extenders, which make up the microprocessor.
- Implementation of the microprocessor on the Artix 7 board (XC7A100T-2CSG324) and simulation of Bubble Sorting.

Personal Repository of Competitive Programming Codes.

2017-

Accepted solutions for programming problems of different topics on various platforms and judges.

2019

Implementation of data structures and selected topics learned on Algorithmic Club at <u>ESCOM</u>.

#### SKILLS AND TECHNOLOGIES

#### **PROGRAMMING LANGUAGES** 1.5 years C/C++ Java 1 year JavaScript Python 1 year 1 year **AWARDS** Creation of Youtube Channel "Dile al Kai" 2020 Exchange student in PROMOE program. 2020 2019 DEV FEST Participant in Valencia by Google. Member of 1st generation Santander-EMTECH Impulsa 2019 Algorithmic Club Member at ESCOM-IPN 2018-2019 **ACM-ICPC Student Chapter Member** 2018-2019 Chess Club Member at ESCOM-IPN 2018-2019 2016-2019 Member of Academic Excellence Program at ESCOM Participant of Grand Prize of Mexico ACM-ICPC 2018 Staff Leader in the Regional Mexico and Central America 2016 ACM-ICPC by ESCOM-IPN.

#### TECHNOLOGIES

HTML, MySQL, CSS, UML, XML, Pentaho, StarUML, Node js, LaTex, MS Office, Mathematica, RapidMiner, Power BI, Octave, Matlab.

# ON-SITE COURSES

Oracle Certified Associated Java SE 8 Fundamentals OCA Course by Certificatic at Escuela Superior de Cómputo in august 2016.

#### ONLINE COURSES AND CERTIFICATIONS

- PCEP [PCEP-30-01] Certified Entry-Level Python Programmer in March 2021
- Nanodegree in Machine Learning by Udacity online platform in September 2019.
- Neural Networks and Deep Learning by deeplearning.ai and Coursera online platform in August 2020.
- Analyzing Data with Python by IBM and edX online platform in June 2020.