

# Jesús Kaimorts Díaz Medina

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[es.stackoverflow.com/users/81696/jkm](https://es.stackoverflow.com/users/81696/jkm)

## EDUCATION

### Escuela Superior de Cómputo of Instituto Politécnico Nacional

*Bachelor of Science in Computer Systems Engineering.*

Expected graduating in December 2020

GPA: 9.09 out of 10

## WORK EXPERIENCE

### Vos Datos Enterprise Suite

*Consultor Jr. of CONTPAQi*

Coacalco, State of Mexico, Mexico

May 2016 – August 2016

- Support and maintenance via remote computing equipment with CONTPAQi software.

## MAJOR PROJECTS

### Development of deterministic, non-deterministic and pushdown automaton, and Turing Machine in Java

2017

*Implementation of the different types of automaton and Turing Machine to process context independent languages and grammars.*

- Research on languages classification documented in LATEX
- Design and development of system in Java using the package jfreechart to graph some data.
- The graphs of the different types of automata were created using an online tool: Finite State Automata Generator.

### Travel agency system using Java and MySQL

2017

*Final project for the Databases course created by 4 people.*

- Design and implementation of the normalized data base used in the system using Work Bench tool to model database.
- Provided functionality for both back-end and front end for the modules of login, sign up, administrator interface, card verification (basic), travel reservation and home screen using JFrame and JDBC driver for Java.

### Sniffer System in Java

2017

*Final project for the Computer Networks course created by 4 people.*

- System what allows capture packets travelling through a red, using jfreechart and jnetcap package.
- Implementation of IEEE and TCP protocols using Object-oriented programming for the system.
- Collaborated of the development interfaces of sniffer system.

### ESCOMIPS: 16-bit microprocessor in VHDL.

2018

*Final project for the Computer Architecture course created by 3 people.*

- Design of the microprocessor using a RISC architecture and development of microprocessor microinstructions.
- Development of module: Control Unite, Stack, Program Memory, Log File, Data Memory, Arithmetic Logical Unit and Sign and Address Extenders which make up the microprocessor.
- Implementation of the microprocessor on the Artix 7 hardware plate (XC7A100T-2CSG324) and simulation of the bubble sorting algorithm.

### Personal Competitive Programming Code Repository

2018

*Accepted solutions to problems from various platforms and judges.*

- Implementation of data structures and selected topics learned in Algorithmic Club of Escuela Superior de Cómputo.

## SKILLS

### PROGRAMMING LANGUAGES

3 years: Java  
2 years: C/C++  
6 months: MySQL, Python, VHDL.

### AWARDS

Member of Algorithm Club at ESCOM-IPN (2018-2019)  
Member of Chess Club at ESCOM-IPN (2018-2019)  
Member of ACM-ICPC Student Chapter (2018-2019)  
Student of Academic Excellence (2016-2019)  
Grand Prize of Mexico ACM-ICPC Participant (2018)  
Master of Ceremonies in Academic Excellence Ceremony (2018)  
Staff leader at ACM-ICPC Regional of Mexico and (2016)  
America Center SEDE ESCOM IPN  
Highest AGP at CBT. María Luisa Ma. Suarez (2015)

### TECHNOLOGIES

HTML, CSS, JavaScript, UML, XML, Git, Linux, Windows, Argo  
UML, Star UML, Project, Visio, Microsoft Office 365, MATLAB,  
Assembly, LATEX.

### ON-SITE COURSES

- Oracle Certified Associated Java SE 8 Fundamentals OCA by  
Certificatic at Escuela Superior de Cómputo on August 2016.

- Oracle Certified Programming Java SE 8 Programming OCP by  
Certificatic at Escuela Superior de Cómputo on October 2016.

### ONLINE COURSES.

Introduction to Python for Data Science by EDx platform online and  
Microsoft in Febraury 2019.