

🎒 Education

IPN - Escuela Superior de Cómputo / Bachelor's degree in Computer Systems Engineering
Top ranked student for 5 consecutive semesters. Participant of the university. ACM Student Chapter (better known as "Club de Algoritmia ESCOM") for the last 4 semesters.

August 2016 - May 2020
GPA 92 out of 100

UNAM - Faculty of Science / Bachelor's degree in Computer Science
Sophomore, learning about the theoretical part of computer science and especially learning high level math as calculus, number theory, graph theory, set theory and numerical analysis.

August 2017 - December 2022
GPA 92 out of 100

IPN - CECyT 9 / Technical career in Digital Systems
During my high school years I did a technical career in digital systems where I learned about microcontrollers, digital and analog electronics and low level programming in C and assembly.

August 2016 - May 2020
GPA 87 out of 100

👍 Projects

CompilandoConocimiento.com - Personal education project: blog and algorithms reference
Creator of a blog about discrete **math, physics and algorithms**, the project has **around 50 000 views** this year. Since December 2016

- Topics range from pots and implementation of basic data structures like stacks and AVL tree, automata theory and implementation of Turing machine, intro to C and to object oriented programming using Java.
- Author of 6 little books in Spanish about the bases of *Number Theory*, *Complex Analysis*, *Discrete Math*, *Statistics*, *Linear Algebra* and *intro to Databases* which have been downloaded around 8,000 times.
- Author of a **competitive programming reference website**: CompilandoConocimiento.github.io/Reference/
- Author of a repository of solutions for many online judges problems like *UVa*, *Codeforces* and *OmegaUp*.

TdeTiendita - Point of sale system May 2018
Creator of a **simple point of sale** system using **React-Flask-MySQL** to administer the local business of my family. I develop all the system, from the design of the database to the implementation of the frontend and backend.

🎒 Work Experience

Web Maintainer intern / Faculty of Architecture, UNAM November 2016 - July 2017, México City

- Maintained, updated and rewrote part of the codebase of the student's website especially redesigning the signup process for classes using MaterializeCSS and JQuery finishing with a more intuitive and modern interface.
- Fixed some rather obvious sql injections vulnerabilities and rewriting some back-end scripts using PHP.
- Fixed occasionally hardware problems with the servers.

Auxiliar Teacher / Centro Escolar Acozac January 2014 - January 2015, Acozac, México State
Auxiliar professor in elementary math in a private group of 10 students at CEA Junior High.

❤️ Programming Languages

3 years: modern **C++** 11/14/17; **C**.

1 year:

JavaScript (ES6+), specially around the React ecosystem
Java and **Kotlin** (also basic idea of creating basic android apps).
PHP7; **Python3**.

6 months: **Dart** (and the Flutter SDK); **MySQL**

❤️ Awards

- Participant of the **Grant Prize of Mexico ACP-IPC 2018**, with the team *BrokenSort*, finalized in place 91 of 404 teams.
- **Third place** in the 2018 annual programming contest "Donald Knuth" at **Escuela Superior de Cómputo** (ESCOM - IPN University)
- **Student of Academic Excellence** for 5 semesters at ESCOM
- **Google Foobar** participant

❤️ Technologies

HTML5, CSS3, Typescript, MaterializeCSS, jQuery, React, NodeJS and npm, Android SDK, Webpack, Babel, Flutter SDK, Github, **LaTeX** (mainly for math and computer science docs)

UNIX / Bash. MySQL, Flask.

❤️ Courses and Certifications

- **Flutter certification by the GDG UNAM** (Google Development Group UNAM) from June to July of 2018
- **UNAM Mobile course: Intro to Kotlin for Android** development on August 2018
- **B2 English certification** by the Instituto Politécnico Nacional and KET certification by the Cambridge English Qualifications.