

## 🎒 Education

**IPN - Escuela Superior de Cómputo / Bachelor's degree in Computer Systems Engineering**  
Top ranked student for 5 consecutive semesters. Participant of the 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 PIC assembly.

August 2013 - June 2016  
**GPA 87 out of 100**

## 👍 Projects

**CompilandoConocimiento** - 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 explanation posts, implementation of basic data structures (stacks, queues, AVL trees, etc), automata theory, introduction to C and to object oriented programming using Java.
- Author of 6 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 9,000 times.
- Author of a **competitive programming reference website**: [CompilandoConocimiento.github.io/Reference/](https://CompilandoConocimiento.github.io/Reference/)

**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

**Software engineering intern** / Facebook Inc.

January 2019 - April 2019, Menlo Park, California, USA

- Working at the Search @ Messenger team in web (front and backend) to create a better search experience adding contextual lines and polishing the search for messages and the navigation around the search 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.

## ❤ 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.

## ❤ Programming Languages

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

**1.5 years:**

**JavaScript** (ES2015+), specially around the React ecosystem

**Java** and **Kotlin** (also basic idea of creating basic android apps).

**PHP 7; Python 3.**

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

## ❤ 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.
- **DAT208x:** Introduction to Python for Data Science learning initiative of Microsoft through edX on Jan 2019.
- **B2 English certification** by the IPN and KET certification by the Cambridge English Qualifications.

## ❤ Technologies

HTML5, CSS3, MaterializeCSS, Typescript, jQuery.

React, NodeJS and npm, Webpack, Babel, Flutter SDK, Android SDK. LaTeX (mainly for math and computer science docs).

Github, UNIX / Bash, Linux, MySQL, Flask.