

## 🎒 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 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 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/](https://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** (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**

## ❤️ 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.