

# Oscar Andres Rosas Hernandez

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🌐 Portfolio: SoyOscarRH.github.io

## 🎓 Education

### IPN - Superior School of Computer Sciences / Bachelor's degree in Computer Systems Engineering

Top ranked student for 6 consecutive semesters. Participant of the university ACM Student Chapter (better known as "Club de Algoritmia ESCOM") for the last 4 semesters.

August 2016 - Around May 2021

GPA 92 out of 100

### UNAM - Faculty of Science / Bachelor's degree in Computer Science

My second bachelor's degree, focus in learning about the theoretical part of computer science, neural networks and high level math such as number and graph theory and numerical analysis.

August 2017 - Around Dec. 2021

GPA 91 out of 100

### IPN CECyT 9 - Center of Scientific and Technological Studies / Technical career in Digital Systems

During *high school* I did a technical career in digital systems where I learned about digital and analog electronics, computer networks, microcontrollers and low level programming in assembly and C.

August 2013 - June 2016

GPA 87 out of 100

## 💼 Work Experience

### Software engineering intern / Facebook Inc.

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

Worked at the "Search @ Messenger" team in web (front and backend); I created a better search experience by adding message search as a first class citizen in the web version of the product and helped improve the navigation of the product following the M4 redesign.

### 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 and a better user experiences. Fixed some rather obvious SQL injections vulnerabilities and rewrote some back-end scripts using PHP.

## 🚀 Projects

### CompilandoConocimiento.com - Personal education project: math, algorithms and computer science

Since Dec. 2016

- **Blog:** Creator of a blog (in spanish) about discrete math, physics, vectorial analysis, algorithms and data structures, automata theory, intro to C and to POO using Java. The blog has around 150 000 views since the beginning of 2018.
- **Books:** Author of 6 books in Spanish about the bases of number theory, complex analysis, discrete math, statistics, linear algebra and an intro to relational databases which have been downloaded around 9,000 times.
- **Reference:** Author of a competitive programming reference website: [CompilandoConocimiento.github.io/Reference/](https://CompilandoConocimiento.github.io/Reference/)

### TdeTiendita - Point of sale system

Creator of a point of sale system to administer the grocery store owned by my family. I designed the database system and implemented all the front end and back end services.

May 2018

## 🏆 Awards

- **Third place in the 2018 annual programming contest** "Donald Knuth" at Escuela Superior de Cómputo (ESCOM - IPN).
- **Student of academic excellence** for 6 semesters at ESCOM
- **Participant of the Grant Prize of Mexico (ACM-ICPC) in 2017 and 2018**, with the team *BrokenSort*, finalized in place 91 of 404 teams (in 2018).
- **Google Foobar** participant.
- **Speaker at Talend Land 2019:** Workshop Intro to React

## 💻 Programming Languages

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

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

**1.5 years:**

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

PHP 7 (and Hack); Python 3 (and Flask), MySQL

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

**3 months (beginner):** Scilab, Haskell, ReasonML



## Courses and Certifications

- **DAT208x:** Introduction to Python for Data Science learning initiative of Microsoft through edX on Jan 2019.
- **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 IPN and KET certification by the Cambridge English Qualifications.
- Participant in the 3rd (in UPIICSA ) and 4th (in ESCOM) **Summer Training Camp in Competitive Programming.**



## Technologies I know and love

- Flutter SDK, Android SDK.
- Git, Mercurial (FB fork), Github, Bash, Linux.
- HTML5, CSS3, ReasonML, GraphQL, jQuery, Materialize, Typescript, Flow, React, Babel, npm, webpack.
- LaTeX (mainly for math and computer science docs).