

# Oscar Andres Rosas Hernandez - Software engineer

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🌐 Portfolio: SoyOscarRH.github.io

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## 🎓 Education

### Superior School of Computer Sciences (ESCOM), National Polytechnic Institute (IPN) [🔗](#) Bachelor's degree in Computers Systems Engineer

Participant and *teacher assistant* (~40 students) of my university ACM Student Chapter / algorithms club for the last 2 years. Student of *academic excellence* for 7 consecutive semesters.

Aug 2016 - Graduating around Dec. 2021  
GPA 91 out of 100 (3.64)

### School of Sciences, UNAM / Bachelor's degree in Computer Science [🔗](#)

My second degree, I focus here on learning about the theoretical part of computer science as *neural networks* and high level math such as *number, graph theory and numerical analysis*.

Aug 2017 - Graduating around Dec. 2021  
GPA 92 out of 100 (3.68)

### Center of Scientific and Technological Studies #9, IPN / Technical career in Digital Systems [🔗](#)

During high school I did a technical career where learned about digital and analog electronics and microcontrollers.

August 2013 - June 2016  
GPA 87 out of 100 (3.48)

## 💼 Work Experience

### Software engineer intern / Facebook Inc. [🔗](#)

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

Worked at the "Search @ Messenger" team in web (frontend with *JavaScript* and *ReasonML (React)*; backend with *Hack* and *GraphQL*).

- Created a better search experience by adding *message search* as a first class citizen on the web version of the product.
- Collaborated with 2 other teams on improvements in the navigation of messenger on web following the M4 redesign. [🔗](#)

### Web maintainer intern / Faculty of Architecture, UNAM [🔗](#)

November 2016 - July 2017, México City

Rewrote and redesign a section of the student's website (profile, schedules, process to enroll into classes, etc...) using *vanilla PHP* and *Materialize* achieving a more maintainable and documented code base; also a more intuitive and modern interface leading to a better user experience measured by a reduction (~40%) of students confused with the process at the beginning of the semester.

## 🚀 Personal Projects

### CompilandoConocimiento.com [🔗](#) - Education project: Math, algorithms and computer science ❤️

Dec. 2016 - Present

- **Blog:** Creator of a blog (in spanish) about discrete math, algorithms and data structures, automata theory, intro to C and to POO using *Java*, physics and vectorial analysis. The blog has around **250,000 views** since the beginning of 2018.
- **Books:** Author of 6 books in spanish about the bases of number theory, intro to relational databases, discrete math, statistics, linear algebra, complex analysis, and an which have been downloaded around **10,000 times**. [🔗](#)
- **Reference:** Part of a team effort; a competitive programming reference website [🔗](#) and code repository [🔗](#)

### TdeTiendita - Point of sale system [🔗](#)

Co Creator of a point of sale system to administer the grocery store of my family. I helped with the design of the database structure; developed the backend services in *Python / Flask* and taught myself *React* to create a nice frontend for the system.

May 2018

## 🏆 Leadership and Awards

- **Speaker at Talend Land 2019:** Intro to React [Workshop] [🔗](#)
- **Winner of the 2019 Microsoft Chatbot Hackathon** at ESCOM
- **Participant of the Grand Prize of Mexico (ACM - ICPC)** with the team *ANSlosos* (place 30 of 381 teams) in 2019 and in 2018 with *BrokenSort* (91 of 394 teams) [🔗](#)
- **Third place in the 2018 annual programming contest** "Donald Knuth" at ESCOM [🔗](#)
- **Google Foobar participant** [🔗](#)

## 💻 Programming Languages

3 years (advance):

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

2 years:

Modern **C++** 11/14/17, mainly for competitive programming

1.5 years (medium):

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

**Dart 2** (and the **Flutter SDK**)

**Java** and **Kotlin** (and a basic idea of creating apps)

3 months (beginner):

**Haskell**, **Common Lisp**, **ReasonML**, **GraphQL**

## 📖 Courses and Certifications

- **Deep Learning summer camp** at **CVICom UNAM 2019** [🔗](#)
- **Intro to Deep Learning with PyTorch:** Facebook through Udacity on Nov 2019 [🔗](#)
- **Flutter SDK certification by the GDG UNAM** (Google Development Group) summer of 2018 [🔗](#)
- **Kotlin for Android - UNAM Mobile** on Aug 2018 [🔗](#)
- Participant in the 3rd (in UPIICSA 2018) and 4th (in ESCOM 2019) **IPN Competitive Programming summer camp** [🔗](#)
- 2nd School of Algorithms: **Game Theory** at **CIMAT** [🔗](#)
- **Platzi student (+20 courses)** in web, programming languages and software development in general [🔗](#)
- **B2 English certification** by the IPN and KET certification by the Cambridge English Qualifications

## ❤ Technologies I know and love

- Git, mercurial (FB fork), github, bash, linux.
- html5, css3, jquery, materialize, react, typescript, flow, babel, webpack, react native.
- LaTeX (mainly for math and computer science documents).