

Oscar Andres Rosas Hernandez - Software engineer

✉ SoyOscarRH@gmail.com

@SoyOscarRH

☎ +(52) 55 3345 6622

🌐 Portfolio: SoyOscarRH.github.io

@CompilandoConocimiento

in @SoyOscarRH

🎓 Education

Superior School of Computer Sciences (ESCOM - IPN) / B.S. in Computers Systems Engineer

Aug 2016 - around Dec. 2021

Organizer and teacher (~30 students) of my university ACM Student Chapter / algorithms club. Teacher of the React course at university's web dev club. Student of academic excellence for the last 3 years.

GPA 91 out of 100 (3.64)

School of Sciences, UNAM / B.S. in Computer Science

Aug 2017 - around May. 2022

My second degree, I focus here on things like neural networks / machine learning and high level math such as number, graph theory and numerical analysis.

GPA 93 out of 100 (3.72)

Center of Scientific and Technological Studies #9, (IPN) / Technical track in Digital Systems

August 2013 - June 2016

During high school I did a technical career focused in digital system, analog electronics and microcontrollers.

GPA 87 out of 100 (3.48)

💼 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 **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, Mexico City

Rewrote the student's website (profile, schedules, process to enroll) using **PHP**; redesigned a more intuitive interface with **material design** leading to a better user experience measured by a reduction (~30%) of confused students 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 about math, theoretical computer science, algorithms and data structures (300K views)
- **Books:** Author of notes in number theory, databases, discrete math, statistics, linear algebra, complex analysis (8k views)
- **Reference:** Part of a team effort; a competitive programming reference website and code repository

TdeTiendita - Point of sale system

May 2018

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 with Flask** and taught myself **React** to create a nice frontend for the system.

🏆 Leadership and awards

- **Speaker at Talend Land 2019:** Intro to React [Workshop]
- **Winner of the 2019 Microsoft Chatbot Hackathon** at ESCOM
- **Top 30 in the Grand Prize of Mexico 2019 (ACM - ICPC)**
- **3rd place in the 2018 annual programming contest "Donald Knuth"** at ESCOM
- **Google Foobar** participant

💻 Programming languages

3 years (advance):

JavaScript (ES2015+), specially focused on frontend

2 years:

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

1.5 years (medium):

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

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

Dart 2 (and the Flutter SDK)

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** at Udacity
- **Flutter SDK certification** by the GDG UNAM (Google Development Group)
- **Kotlin for Android - UNAM Mobile**
- Participant in many **competitive programming summer camps** (in UPIICSA, ESCOM and CIMAT)
- **Platzi student (+20 courses)** in web, programming languages and software development in general
- **B2 English certification** by IPN and KET certification
- **Wallbreakers** software engineering apprenticeship

💖 Technologies I know and love

- git, github, mercurial (fb fork), bash, linux, latex, pytorch
- html5, css3, react, typescript, flow, webpack, react native