

Oscar Andres Rosas Hernandez - Software engineer

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🌐 Portfolio: SoyOscarRH.github.io

🔄 @CompilandoConocimiento

📄 @SoyOscarRH

🎓 Education

Computers Systems Engineer, B.S. | Superior School of Computer Sciences (ESCOM, IPN) 📄

Student of academic excellence for the last 4 years. Organizer and teacher of my university ACM Student Chapter / algorithm club. Main teacher of the React course at my college's Web Development Club.

Aug 2016 - Jan. 2022
CGPA: 92 out of 100 (3.66)

Computer Science, B.S. | School of Sciences (Facultad de Ciencias, UNAM) 📄

Relevant courses: Cryptography, parallel computing, neural networks, machine learning, probability, number and graph theory, numerical analysis, and data structures and algorithms.

Aug 2017 - Dec. 2022
CGPA: 93 out of 100 (3.73)

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

Did it during high school; focused on *analog* and *digital* systems, *electronics*, and a the use of *microcontrollers*.

Aug 2013 - June 2016
CGPA: 87 out of 100 (3.48)

💼 Experience

Software Engineer Intern | Facebook Inc. (Facebook Gaming) 📄

June - Aug 2020, Remote work | Team at Seattle Office

Collaborator on "Games Machine Learning" team (**JavaScript**; **Hack**, **Python**, and **GraphQL**).

- Improved the chaining experience on *fb.gg* thanks to A/B testing on the architecture that generates the "Up Next" videos.
- Created a logging system and the first recommendation machine learning models used in the main page of Facebook Gaming.

Software Engineer Intern | Facebook Inc. (Messenger) 📄

January - April 2019, Menlo Park, California

Collaborator on "Search @ Messenger" team (**JavaScript** and **ReasonML**; **Hack** and **GraphQL**). These features are now used by tens of millions of users each week.

- Created a better search experience by adding the ability to search for messages from the general search bar on messenger web.
- Collaborated with other 2 teams to improve navigation through different screens on messenger web following the M4 redesign.

Web Maintainer Intern | Faculty of Architecture, UNAM

November 2016 - July 2017, Mexico City

Rewrote (**PHP**) & redesigned the student's site using **material design** leading to a 35% reduction on cases of students lost in the inscription process.

🚀 Projects

CompilandoConocimiento.com 📄 - Personal project: Math, algorithms and computer science ❤️

Dec. 2016 - Present

- Blog:** Creator of a blog about math, theoretical computer science, and algorithms & data structures (**300K views**)
- Books:** Author of mini books in number theory, databases, discrete math, statistics, linear algebra, and complex analysis (**8k views**) 📄
- Reference:** Main collaborator of a competitive programming reference website 📄 and code repository 📄

TdeTiendita 📄 - Point of sale system

Jan. 2018 - May 2018

Created the backend services in **Python / Flask**, and taught myself **React** to create a nice frontend for it; did it for my family grocery store :)

For a list with +20 projects that I really feel proud please visit my portfolio: SoyOscarRH.github.io/projects 📄

🏆 Leadership and awards

- Speaker at Talend Land 2019: Intro to React (Workshop) 📄
- 1st place in the 2019 Microsoft Chatbot Hackathon @ ESCOM
- 30 out of 400 in the Grand Prize of Mexico 2019 (ACM - ICPC) 📄
- 3rd place in the 2018 programming contest "Donald Knuth" 📄
- Google Foobar participant 📄, Google Code Jam and KickStart
- Organizer and teacher of my university ACM Student Chapter: algorithm club with over +70 active members each semester 📄
- Teacher of the Intro to React course at the web club 📄

💻 Programming languages

4 years (advanced):

JavaScript (ES2015+); special focus on frontend with React

3 years:

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

1.5 years (proficient):

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

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

Dart 2 (and the **Flutter** SDK for creating cross platform apps)

3 months (beginner):

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

📖 Courses and experience

- Google Software Product Sprint:** virtual, invite only program that brings together top university students across North America and Googlers for 11 weeks to design and build web apps, gain applied data structure and algorithms skills, and receive tailored career development resources 📄
- Platzi student (+30 courses)** in web, programming languages and software development in general 📄
- Wallbreakers** software engineering apprenticeship 📄
- Deep Learning summer camp** at CVICom UNAM 📄
- Intro to Deep Learning with PyTorch** at Udacity 📄
- Flutter SDK certification** by the **GDG UNAM** (Google Development Group) and **Kotlin for Android - UNAM Mobile** 📄
- Participant in many **competitive programming summer camps**, in UPIICSA, ESCOM and CIMAT 📄
- B2 English certification** by IPN and KET certification

❤ Technologies I know and love

- Linux; git, github, mercurial (fb fork); latex; mysql
- Flutter, react native; html5, css3, materialize; react, svelte; typescript, flow, webpack
- Tensorflow, pytorch