Oscar Andres Rosas Hernandez - Software engineer

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🌐 **Portfolio:** SoyOscarRH.github.io   ○ **@CompilandoConocimiento**   in **@SoyOscarRH**

EDUCATION

Computers Systems Engineer, B.S. | Superior School of Computer Sciences (ESCOM, IPN) ⬀   Aug 2016 - Jan. 2022
Student of academic excellence for the last 4 years. Organizer and teacher of my university ACM Student   **CGPA: 92** *out of* **100 (3.66)**
Chapter / algorithm club. Main teacher of the React course at my college's Web Development Club.

Computer Science, B.S. | School of Sciences (Facultad de Ciencias, UNAM) ⬀   Aug 2017 - Dec. 2022
Relevant courses: Cryptography, parallel computing, neural networks, machine learning, probability, number   **CGPA: 93** *out of* **100 (3.73)**
and graph theory, numerical analysis, and data structures and algorithms.

Digital Systems, Technical track | Center of Scientific and Technological Studies #9 (IPN) ⬀   Aug 2013 - June 2016
Did it during high school; focused on analog and digital systems, electronics, and the use of microcontrollers.   **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.
- Improved the recommendations at the endscreen of gaming videos and the logging system used in the main page of *fb.gg*.

Software Engineer Intern | Facebook Inc. (Messenger) ⬀   *January - April 2019, Menlo Park, California*
*Collaborator on "**Search @ Messenger**" team (**JavaScript** and **ReasonML**; **Hack** and **GraphQL**).* Features are 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**) and 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* **(350K views)**
- **Books:** Author of mini books in *number theory, databases, discrete math, statistics, linear algebra, and complex analysis* **(10k 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

COURSE AND APPRENTICESHIPS

- **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