Oscar Andres Rosas Hernandez - Software engineer

✉ **SoyOscarRH**@gmail.com   ⬡ **@SoyOscarRH**   📞 **+(52)** 55 3345 6622

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

EDUCATION

Computers Systems Engineer, B.S. | Superior School of Computer Sciences (ESCOM, IPN) ↗   Aug 2016 - Feb. 2022
Student of academic excellence for the last 5 years. Organizer and teacher of my university ACM Student   **CGPA: 91 out of 100 (3.64**/4)
Chapter / algorithm and interviews club. Teacher of the ReactJS course at my college's Web Dev 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: 92 out of 100 (3.68**/4)
and graph theory, numerical analysis, and data structures and algorithms.

Digital Systems, Technical Degree | 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**/4)

EXPERIENCE

Software Engineer and Data Science, Intern | Microsoft Inc. (Azure Data R&D)   *May - Aug 2021, Remote | Team at Seattle Office*
*Collaborator on "**ORCAS (Open Source Azure databases) differentiation**" team (**Python**, and **SQL**).*
- Researched about the SOTA (State of the Art) in Text2SQL: Transforming natural language question into SQL
- Added the capability to use OFFSET to SmBop; created new data points: SQL queries by grammar expansion and back translation

Software Engineer, Intern | Facebook Inc. (Facebook Gaming) ↗   *June - Aug 2020, Remote | Team at Seattle Office*
*Collaborator on "**Games Machine Learning**" team (**JavaScript**; **GraphQL, Hack**, **Python**, and **SQL**).*
- Improved the chaining experience on *fb.gg* thanks to *A/B testing* on the architecture that generates the *"Up Next"* videos.
- Enhance the recommendations at the endscreen of all gaming videos and the logging system used all over *facebook.com/gaming*.

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*.

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* to help college students **(350K views)**
- **Books:** Author of **free** mini books in *number theory, databases, discrete math, statistics, linear algebra, and complex analysis* **(10k reads)** ↗
- **Reference:** Main collaborator of a competitive programming reference website ↗ and code repository ↗

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* helping *+100 students* each semester. ↗
  Speaker and **mock interviewer** of *Nutria Sub-Interview Club*
- **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 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