

Oscar Andres Rosas Hernandez - Software engineer

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🌐 Portfolio: SoyOscarRH.github.io

🔄 @CompilandoConocimiento

📄 @SoyOscarRH

🎓 Education

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

Student of academic excellence for the last 3 years. Organizer and teacher of my university ACM Student Chapter: *algorithm club*. Teacher of the React course at college web dev club.

Aug 2016 - Jan. 2022
GPA: 91 out of 100 (3.64)

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

My second degree. Relevant courses: data structures and *algorithms*, *cryptography*, *neural networks*, *machine learning* and high level math such as *probability*, *number*, *graph theory* and *numerical analysis*.

Aug 2017 - Dec. 2022
GPA: 93 out of 100 (3.72)

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

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

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

💼 Experience

Software Engineer Intern / Facebook Inc. 📄

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

Worked on the "Search @ Messenger" team on 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 it with the **material design guidelines** leading to a better and more intuitive user experience measured by a reduction (~30%) of confused students at the beginning of the semester.

🚀 Projects

CompilandoConocimiento.com 📄 - Personal 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 📄

Jan. 2018 - May 2018

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

For a list with +20 projects 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

3 years (advanced):

JavaScript (ES2015+), specially focused on frontend

2 years:

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

1.5 years (proficient):

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 for creating cross platform apps)

3 months (beginner):

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



Courses and certifications

- **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 (+20 courses)** in web, programming languages and software development in general 📄
- **Wallbreakers** software engineering apprenticeship 📄
- **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) and **Kotlin for Android - UNAM Mobile** 📄
- Participant in many **competitive programming summer camps**, in **UPIICA**, **ESCOM** and **CIMAT** 📄
- **B2 English certification** by **IPN** and **KET certification**



Technologies I know and love

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