

Oscar Andres Rosas Hernandez - Software engineer

✉ SoyOscarRH@gmail.com
🌐 Portfolio: SoyOscarRH.github.io

🔄 @SoyOscarRH
🔄 @CompilandoConocimiento

📞 +(52) 55 3345 6622
🌐 @SoyOscarRH

EDUCATION

Computers Systems Engineering, 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 Chapter / algorithm and interviews club. Teacher of the React course at my college's Web Dev Club.
CGPA: 90 out of 100 (3.6/4)

Computer Science, B.S. | School of Sciences (Facultad de Ciencias, UNAM) [🔗](#) Aug 2017 - Dec 2022
Relevant courses: Cryptography, parallel computing, neural networks, probability, numerical analysis.
CGPA: 92 out of 100 (3.7/4)

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 (3.5/4)

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; used Python, and SQL.

- Researched about the SOTA (State of the Art) in Text2SQL: Transforming natural language questions into SQL queries
- Added the capability to use OFFSET to SmBop; created new data points: SQL queries by grammar expansion and back translation

Software Engineer, Intern | Meta Inc. previously Facebook Inc.
Used ReScript, JavaScript focused in the React and React Native ecosystem; GraphQL and Relay, Hack, Python, and SQL.

"Conversational Commerce" team at Novi / Facebook Financial Sept - Dec 2021, Remote | Team at Menlo Park Office

- Improved Messenger Orders product by adding images to orders; and showing the as buyer / seller in mobile and web platforms
- Enhance the Order Details screen on mobile and web

"Games Machine Learning" team at Facebook Gaming June - Aug 2020, Remote | Team at Seattle Office

- 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.

"Search @ Messenger" team at Messenger January - April 2019, Menlo Park, California, US

- 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)** [🔗](#)
- **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 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):

ReScript, 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