Oscar Andres Rosas Hernandez - Software engineer

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🌐 Portfolio: SoyOscarRH.github.io   @SoyOscarRH

🎓 Education

Superior School of Computer Sciences (ESCOM), Instituto Politécnico Nacional (IPN) ⬀
Bachelor's degree in Computers Systems Engineer
Aug 2016 - Graduating around Dec. 2021
GPA 92 out of 100
Participant and teacher assistant (~50 students) of my university ACM Student Chapter -
Algorithms club for the last 2 years. Student of **academic excellence** for 6 consecutive semesters.

Facultad de Ciencias, UNAM / Bachelor's degree in Computer Science ⬀
Aug 2017 - Graduating around Dec. 2021
GPA 91 out of 100
My second degree, I focus here on learning about the theoretical part of computer science as
neural networks and high level math such as **number, graph theory and numerical analysis.**

Center of Scientific and Technological Studies #9, IPN / Technical career in Digital Systems ⬀
August 2013 - June 2016
GPA 87 out of 100
During *high school* I did a technical career where learned about electronics and microcontrollers

💼 Work Experience

Software engineer intern / Facebook Inc.
January 2019 - April 2019, Menlo Park, California, USA
Worked at the *"Search @ Messenger"* team in web (frontend with **JavaScript** and **ReasonML (React)**; backend with **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, México City
Rewrote and redesign a section of the student's website (profile, schedules, process to enroll into classes, etc...) using vanilla **PHP** and
MaterializeCSS achieving a more maintainable and documented code base; also a more intuitive and modern interface leading to a
better user experience measured by a reduction (~40%) of students confused with the process at the beginning of the semester.

🚀 Personal Projects

CompilandoConocimiento.com ⬀ - *Education project: Math, algorithms and computer science* ❤
Dec. 2016 – Present
- **Blog:** Creator of a blog (in spanish) about discrete math, physics, vectorial analysis, algorithms and data structures, automata theory, intro to **C** and to POO using **Java**. The blog has around **200 000 views** since the beginning of 2018.
- **Books:** Author of 6 books in Spanish about the bases of number theory, complex analysis, discrete math, statistics, linear algebra and an intro to relational databases which have been downloaded around 9,000 times. ⬀
- **Reference:** Part of a team effort; A competitive programming reference website ⬀ and code repository ⬀

TdeTiendita - *Point of sale system* ⬀
May 2018
Co Creator of a point of sale system to administer the grocery store of my family. I helped with the design of the database
structure; developed the backend services in **Python** / **Flask** and taught myself **React** to create a nice frontend for the system.

🏆 Leadership and Awards

- **Speaker** at a workshop in **Talend Land 2019**: Intro to React. ⬀
- **Winner** of the **2019 Microsoft Chatbot Hackathon** at ESCOM.
- **Participant of the Grand Prize of Mexico (ACM-ICPC)** with the team *ANSIosos* (*place 30 of 381 teams*) in *2019* and in *2018* with BrokenSort (*91 of 394 teams*). ⬀
- **Third place in the 2018 annual programming contest** "Donald Knuth" at ESCOM. ⬀
- **Google Foobar** participant. ⬀

</> Programming Languages

3 years (advance):
   JavaScript (ES2015+), distinctively around the **React** ecosystem

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

1.5 years (medium):
   Python 3 (and Flask); **MySQL**; **PHP 7** (and Hack)
   Dart 2 (and the **Flutter** SDK)
   Java and **Kotlin** (and a basic idea of creating apps)

3 months (beginner):
   Haskell, Common Lisp, ReasonML, GraphQL

📖 Courses and Certifications

- **Deep Learning summer camp** at **CVICom UNAM** 2019 ⬀
- **DAT208x:** Intro to Python for Data Science learning initiative of **Microsoft through edX** on Jan 2019 ⬀
- **Flutter SDK certification by the GDG UNAM** (Google Development Group) summer of 2018 ⬀
- **Kotlin for Android - UNAM Mobile** on Aug 2018 ⬀
- Participant in the 3rd (in UPIICSA 2018) and 4th (in ESCOM 2019) **IPN Competitive Programming summer camp** ⬀
- 2nd School of Algorithms: **Game Theory** at **CIMAT** ⬀
- **Platzi student (+20 courses)** in web, programming languages and software development in general ⬀
- **B2 English certification** by the IPN and KET certification by the Cambridge English Qualifications

💜 Technologies I know and love

- Git, mercurial (FB fork), github, bash, linux.
- HTML5, CSS3, jQuery, materialize, react, typescript, flow, babel, webpack, React Native.
- LaTeX (mainly for math and computer science docs).