Oscar Andres Rosas Hernandez - Software engineer

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🎓 Education

Superior School of Computer Sciences (ESCOM), Instituto Politécnico Nacional (IPN) ↗
Bachelor's degree in Computers Systems Engineer
Student of "academic excellence" for 6 consecutive semesters; participant and auxiliar teacher of the
university ACM Student Chapter (better known as *"Club de Algoritmia ESCOM"*) for the last 2 years.

Aug 2016 - around Dec. 2021
GPA 92 out of 100

Facultad de Ciencias, UNAM / Bachelor's degree in Computer Science ↗
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.

Aug 2017 - around Dec. 2021
GPA 91 out of 100

Center of Scientific and Technological Studies #9, IPN / Technical career in Sistemas Digitales ↗
During *high school* I did a technical career, learned about digital and analog electronics and microcontrollers.

August 2013 - June 2016
GPA 87 out of 100

💼 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 two other teams on improvements in the navigation of *"messenger web"* following the M4 redesign. ↗

Web maintainer intern / Faculty of Architecture, UNAM ↗   *November 2016 - July 2017, México City*
- Rewrote a section of the student's website (profile, documents, schedules, process to enroll into classes, etc...) using PHP achieving a more maintainable, secure, and documented code base.
- Redesigned many parts of the site finishing with a more intuitive and modern interface leading to a better user experience and a lot less confused students at the beginning of each semester.

🚀 Projects

CompilandoConocimiento.com ↗ - *Personal 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 *150 000 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:** Author of a competitive programming reference website ↗ and code repository ↗

TdeTiendita - *Point of sale system* ↗
Creator of a point of sale system to administer the grocery store of my family. I designed the database structure; developed it in *Python / Flask* all the backend services, taught myself *React* and created a nice frontend for the system.

May 2018

🏆 Leadership and Awards

- **Speaker** at **Talend Land 2019**: Workshop Intro to React ↗
- **Winner** of the **2019 Microsoft Chatbot Hackathon** ESCOM
- **Participant of the Grand Prize of Mexico (ACM-ICPC)** with the team *ANSlosos* finalizing in place 30 of 381 teams in 2019 and in 2018 with BrokenSort (91 of 394 teams) ↗
- **Student of academic excellence** for 6 semesters at ESCOM ↗
- **Third place in the 2018 annual programming contest** "Donald Knuth" at Escuela Superior de Cómputo (ESCOM) ↗
- **Google Foobar** participant ↗

🧑‍💻 Programming Languages

3 years (advance): JavaScript (ES2015+), specially around the **React** ecosystem and **React Native**.
2 years: modern **C++** 11/14/17, specially for competitive programming.
1.5 years (medium): Python 3 (and Flask); **MySQL**; **PHP 7** (and Hack).
1 year: Dart (and the **Flutter** SDK); **Java** and **Kotlin** (also basic idea of creating basic android apps); **C**
4 months (beginner): Haskell, Common Lisp, ReasonML, Scilab, GraphQL.

📖 Courses and Certifications

- **DAT208x:** Introduction to Python for Data Science ↗ learning initiative of **Microsoft through edX** on Jan 2019
- **Deep Learning summer camp** - **CVICom UNAM** 2019 ↗
- **Flutter SDK certification by the GDG UNAM** (Google Development Group) from June to July of 2018 ↗
- **Kotlin for Android - UNAM Mobile** on Aug 2018 ↗
- **B2 English certification** by the IPN and KET certification by the Cambridge English Qualifications
- 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 technology, web, languages, software development in general ↗

❤️ Technologies I know and love

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