Oscar Andres Rosas Hernandez - Software engineer

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🎓 Education

Superior School of Computer Sciences (ESCOM), National Polytechnic Institute (IPN) ⎘
B.S. in Computers Systems Engineer
Aug 2016 - Graduating around Dec. 2021
GPA 91 out of 100 (3.64)
Organizer and teacher (~30 students) of my university *ACM Student Chapter / algorithms club*. Teacher of the React course at university's web dev club. Student of academic excellence for the last 3 years.

School of Sciences, UNAM / B.S. in Computer Science ⎘
Aug 2017 - Graduating around Dec. 2021
GPA 93 out of 100 (3.72)
My second degree, I focus here on learning about the more theoretical part of CS as *neural networks / machine learning* 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 (3.48)
During *high school* I did a technical career where learned about digital and analog 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 **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 and redesign the student's website (profile, schedules, process to enroll) using **PHP**, **materialize and css** achieving a more intuitive interface, leading to a better user experience measured by a reduction (~30%) of confused students 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, algorithms and data structures, automata theory, intro to **C** and to POO using **Java**, physics and vectorial analysis. The blog has around **250K views** since the beginning of 2018.
- **Books:** Author of 6 books in spanish about the bases of number theory, intro to relational databases, discrete math, statistics, linear algebra, complex analysis; which have been downloaded more than **8K 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 with Flask** and taught myself **React** to create a nice frontend for the system.

🏆 Leadership and awards

- **Speaker at Talend Land 2019**: Intro to React [Workshop] ⎘
- **Winner** of the **2019 Microsoft Chatbot Hackathon** at ESCOM
- **Participant of the Grand Prize of Mexico (ACM - ICPC)** with the team *ANSlosos (place 30 of 381 teams)* in *2019* ⎘
- **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)
   Java and **Kotlin** (and a basic idea of creating apps)
   Dart 2 (and the **Flutter** SDK

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

📚 Courses and certifications

- **Deep Learning summer camp** at **CVICom UNAM** 2019 ⎘
- **Intro to Deep Learning with PyTorch:** Facebook through Udacity on Nov 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** ⎘
- **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, github, mercurial (FB fork), bash, linux.
- html5, css3, react, typescript, flow, babel, webpack, react native.
- LaTeX (mainly for math and computer science documents).