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🌐 Portfolio: SoyOscarRH.github.io

🎓 Education

IPN - Superior School of Computer Sciences / Bachelor's degree in Computer Systems Engineering

Aug 2016 - around May 2021

Student of academic excellence for 6 consecutive semesters; participant of the university ACM Student Chapter (better known as "Club de Algoritmia ESCOM") for the last 2 years.

GPA 92 out of 100

UNAM - Faculty of Science / Bachelor's degree in Computer Science

Aug 2017 - around Dec. 2021

My second bachelor's degree, I focus here on learning about the theoretical part of computer science, neural networks and high level math such as number and graph theory and numerical analysis.

GPA 91 out of 100

IPN CECyT 9 - Center of Scientific and Technological Studies / Technical career in Digital Systems

August 2013 - June 2016

During *high school* I did a technical career in digital systems where I learned about digital and analog electronics, computer networks, microcontrollers and low level programming in assembly and C.

GPA 87 out of 100

💼 Work Experience

Software engineering intern / Facebook Inc.

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

Worked at the "Search @ Messenger" team in web (frontend using JS and ReasonML (React); backend using 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

Since Dec. 2016

- **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.

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 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
- **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 - IPN).
- **Participant of the Grand Prize of Mexico (ACM-ICPC) in 2017 and 2018**, with the team *BrokenSort*, finalized in place 91 of 404 teams (in 2018).
- **Google Foobar** participant.

💻 Programming Languages

3 years (advance): JavaScript (ES2015+), specially around the React ecosystem.

2 years: modern C++ 11/14/17; C.

1.5 years (medium): Python 3 (and Flask); MySQL; PHP 7 (and Hack).

8 months: Dart (and the Flutter SDK); Java and Kotlin (also basic idea of creating basic android apps).

4 months (beginner): Haskell, 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.**
- **Platzi student (+20 courses)** in technology, web, languages, software development in general.



Technologies I know and love

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