Oscar Andrés Rosas Hernandez

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💙 Skills and Abilities

- Great understanding of modern **C++11/14/17 and the STL** using the *C++ Core Guidelines*; also a great understanding of **C**. I have been using both languages mainly for competitive programming.
- Expert in many modern JavaScript technologies **ES2015** especially around the **React**, and now learning **TypeScript**.
- General knowledge of **Java** and **Kotlin**, also capable of creating basic android apps.
- Competent in **Dart** and the **Flutter SDK**. Used it to create cross-platform apps following **material design** guidelines.
- Great at web technologies: **HTML5 & CSS3** and back-end languages like **PHP7** and **Python3** *(using Flask)*.
- Know and love to work in the **object oriented** and **functional** paradigm and using the **reactive programming** ideas.
- Great at working with **LaTeX,** mainly in the creation of math and computer science documents.
- Comfortable working with a team using version control **GitHub** and working in **Windows**, **GNU/Linux** and **MacOS.**
- **B2 English** certification by the IPN and KET certification by the Cambridge English Qualifications.

👍 Projects and Achievements

- Creator of a WordPress math, physics and algorithms blog / project with around 45 000 views this year called CompilandoConocimiento.com and author of 5 little introductory books in Spanish about *Number Theory, Complex Analysis, Discrete Math, Basic Statistics and Linear Algebra* which have been downloaded around 5,000 times.
- Creator of a simple point of sale system using **React-Flask-MySQL** to administer the local business of my family.
- Participant of the **ACM-ICPC** "Gran Premio de Mexico & Centroamerica 2017", finalized in place 183 of 404 teams.
- **Third place** in the 2018 **annual programming contest** "Donald Knuth" at **ESCOM IPN** University.
- **Flutter certification** by the GDG UNAM (Google Development Group UNAM).

💼 Work Experience

Faculty of Architecture, UNAM / Web Maintainer   *2016-17, Ciudad Universitaria, México City*

I maintained, updated and rewrote part of the codebase of the student's website especially rewriting the sign up process for classes and redesigning many pages using material design. I fixed occasionally hardware problems with the servers.

Contact: rodrigo@unam.mx

Centro Escolar Acozac / Auxiliar Teacher   *2014-15, Acozac, México State*

Auxiliar math professor in a private group of 10 students at CEA Junior High.   Contact: eherreracarrillo@gmail.com

💼 Education

UNAM - Faculty of Science/ Bachelor's degree in Computer Science   *2017-2022*
Freshman, learning about the theoretical part of computer science and especially learning hardcore math: calculus, number theory, graph theory, set theory, and numerical analysis. GPA 9.2-10.

IPN - ESCOM / Bachelor's degree in Computer Systems   *2016-2020*
Top ranked student for 5 consecutive semesters, GPA 9.2-10. Participant of the university ACM Student Chapter (better known as "Club de Algoritmia ESCOM") for the last 4 semesters.

IPN - CECyT 9 / Technical career in Digital Systems   *2013-2016*
During my high school years I did a technical career in digital systems where I learned about microcontrollers, basic digital and analog electronics and low level programming in C and assembly.