



## Skills and Abilities

- Fluent in modern **C++ (11/14)** and **C**, especially for competitive programming
- General knowledge in **Java** and **Kotlin** specially for creating apps for android using Material Design
- Fluent using **Dart** to create cross-platform mobile apps using the **Flutter SDK** and **Material Design**
- Fluent with web technologies: **HTML 5 & CSS** and basic back-end languages like **PHP7** and **Python-Flask**
- Very fluent with many modern (**ES6**) **Javascript** technologies specially the **React** library
- Know and love to work in the **Object Oriented**, **Functional** and the **Reactive** paradigm
- Work with **LaTeX** primarily in the creation of math and computer science documents
- Comfortable working with a team using version control (**Git - GitHub**)
- Capable to work in **Windows**, **GNU/Linux** and **MacOS**
- **B2 Level of Cambridge English** language for ESCOM IPN and **KET** from the British Council



## Projects and Achievements

- **Creator of a wordpress math and algorithms blog** / project with  $\approx 35,000$  views this year called **CompilandoConocimiento.com** and **author of 5 little books** in LaTeX for Number Theory, Complex Analysis Discrete Math, Basic Statistics and Linear Algebra which have been downloaded  $\approx 2,000$  times
- Create a simple web (using **React**) point of sale system to administer the local business of my family
- Participation in **ACM-ICPC 2017 Local contest**, **182** place of 840 teams
- **Third place** in the 2018 **annual programming contest** "Donald Knuth" at **ESCOM IPN University**
- **Flutter certification** by Google and Google Development Group UNAM



## Work Experience

**UNAM / Web Maintainer**

2016-17, Faculty of Architecture CU / UNAM

Maintain, update and rewrite (part) of the codebase from the student's site of the Architecture webpage using **PHP**, **HTML**, some *little Javascript* and **PostgreSQL** also I fix 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/ Computer Science**

2017-2022

Freshman, learning about the theoretical part of computer science and math: Calculus, number, graph and set theory and algorithms analysis.

**IPN - ESCOM / Computer Systems Engineering**

2016-2021

Top ranked student at for 5 consecutive semesters, 9.2-10. ACM Student Chapter of the ESCOM-IPN participant for 4 semesters.

**IPN - CECyT 9 / Digital Systems (technical career)**

2013-2016

During my high school I did a technical career learning about digit systems where I learned about microcontrollers, basic electronics and low level programming in C.