Erick Efraín Vargas Romero

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🎓 Education

Escuela Superior de Cómputo (ESCOM- IPN).	Jan. 2016 - expected Dec. 2021
B.S. in Computers System Engineer.	GPA 87 out of 100 **(3.3/4.0)**
Centro de Estudios Científicos y Tecnológicos #14 (CECyT) 'Luis Enrique Erro'.	2012 - 2015
Technical track in informatics.	GPA 81 out of 100 **(2.7/4.0)**

🔍 Research project (in progress)

Exploration of complex discrete universes using two-dimensional cellular automata.

- Collaborated developing a CA simulator and implementing an algorithm to make the analysis of each rule easier using mean field theory.
- Collaborated analyzing and exploring random rules of this CA.
- Collaborated writing a thesis.

🏆 Awards and participation

Grand prize of Mexico (ACM-ICPC)

Participant in 'Grand Prize of Mexico' with team called 'MXerCoders' (2018) and 'ANSIosos' in place 30 of 316 (2019).

Hacking health Monterrey

Participant on Hacking health Monterrey with project called 'Peditriage' . The main objective of this application was make a pedriatic triage more efficient (2018).

💼 Experience

Professional Practices / Banco de México (Bank of Mexico)

Worked in a system to generate automatically reports getting the information from all the departments using SSRS that works with **Visual Basic** and it is powered by **SQL Server** and **Sharepoint**.

- Software performance was optimized 50% rewriting some recursive code and avoiding consulting a lot of times information.
- Created new reports that allow analysis of new projects and know the current state of each project.

🚀 Projects

Virtual Spaces Manager

This aplication was developed in order to speed up register virtual spaces of the 'Polytechnic Unit for Virtual Education' (UPEV) developed using **JavaScript** and documented using **LaTeX**.

- Collaborated in a team of 30 persons in which I had the role of analyst.
- Created some documentation to this project including use cases, class diagrams, BPMN diagrams, bussiness rules, etc.
- Created **LaTeX** templates to make the documenting process less cumbersome.

Subgüey

Mobile application created to make easier to travel by subway or metrobus in Mexico City. Developed using **Java** for Android to backend and **XML** to frontend.

- Collaborated in a team of 5 persons in which I had the rule of frontend and backend developer.
- Heavily used and learned Google firebase services.

</> Technical skills

Programming languages
4 years: Java
2 years: C / C++
1 year: C#
Beginner: PHP, JavaScript, Dart and Visual Basic, Python

Courses
Introduction to flutter development by App Brewery.

Languages
Spanish (Native) and English (B2 level).

Other technologies
Git, LaTeX, HTML, CSS, Java for android, Flutter, JQuery, ReactJS, SQL

Activity
Member of Artificial Life Robotics Lab (ALIROB).
Member of ACM student chapter: algorithm club.