# Jorge Alexis Márquez Rosales - Software Engineer

🌐 alexismrosales.github.io

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## EDUCATION

**B.Sc. in Mathematics** | School of Sciences (Facultad de ciencias, UNAM) ↗          August 2023 - ?

Bachelor's in pause. Abstraction and logic reasoning and mathematics problem solving skill demonstrated.
Relevant courses: analytic geometry.

**B.Sc. in Computers Systems Engineering** | Superior School of Computer Sciences (ESCOM, IPN) ↗          January 2021 - ?

Learned software system designs, programming in depth and how computational system works.
Relevant courses: operatives systems, systems designs, artificial intelligence and design and analysis of algorithms.

**T.D. in Information Technology** | Center of Scientific and Technological Studies 13 (CECyT 13, IPN) ↗          August 2017- June 2020

Major in Information technology in high school focused on software development, mainly oriented in desktop and web apps.
Relevant courses: web development, databases and advanced programming.

## PROJECTS

**Registration system for new students** | Web app about students account registration ↗          July 2023

- Created from scratch, developed with HTML 5, CSS 3 , JavaScript (using AJAX), PHP and MySQL and the web was hosted on a local server using XAMPP.
- Made it to register new students into the system and assigning them an inscription date depending on the availability of classrooms.
- The app was designed with a login that allows you to register, for students an schedule will be generated with an hour and date in an available classroom. The role of admin will let you to reschedule any date of any student depending of the availability updating the data from the database.

**Interprex** | An interpreter using a standard syntax ↗          May 2023

- The app was built using vanilla version of Java that allows the user program control structures and made different operations.
- The code goes through tree stages: scanner, parser and semantic analyzer. Using different concepts of computer theory like formal languages and finite automata.
- The app was developed applying object-oriented programming and with different data structures to perform different operations like arithmetic operations, control structures and assignment operations.

**SEYSP** | School project developed to help check in and out of teachers          June 2020

- Created an desktop app using C# with Windows Forms and Microsoft SQL that let teachers check in and out using the QR code of their credentials.
- Using a QR scanner the code is read and then the entrance or exit hour is registered in the database, the admin has access to all the information in a special access window.

**For a list of some projects I've done, visit my portfolio:**  alexismrosales.github.io ↗

## SKILLS

- **Programming languages: (proficient)** C# mainly oriented in web and desktop apps (ASP.NET with MVC 5/6. **(familiar)** Python, HTML/CSS, JavaScript and C++ for competitive programming **(beginner)** Java, Prolog mainly oriented for AI and PHP.
- **Languages:** Intermediate level of **English (B2)** and Spanish (Native).
- **Operative systems:** Linux (Ubuntu and Manjaro) and Windows.
- **Database systems:** Microsoft SQL and MySQL .
- **Data analysis tools: (proficient)** Excel **(beginner)** Pandas, NumPy, Jupyter Notebooks and Tableau for data visualization.
- **Others:** Git, knowledge of Microsoft Office Suite (Word, PowerPoint and Project) and bash scripting knowledge.

## COURSES AND APPRENTICESHIPS

- **Data visualization in Excel, Introduction to data science in Python and Introduction to Tableau** at Datacamp.
- **Introduction to artificial intelligence** by CIC (IPN).
- **Automate the Boring Stuff with Python Programming** at Udemy.

## LEADERSHIPS

- Participant of the **Chatbot contest created by Oracle and AI4GOOD.**
- Project presenter and participant of contest **Proyecto Aula by IPN.**