

# Carlos E. Rodríguez

[croc1110@hotmail.com](mailto:croc1110@hotmail.com) | [Personal Portfolio](#) | [GitHub](#)

Student offering a strong foundation in software engineering and programming principles, motivated to apply knowledge and abilities to enhance performance. Eager to learn new skills and advance knowledge with hands-on experience. Always willing to learn something new. Proficient in Python and C, with advanced interpersonal skills.

## Skills

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- Expertise in Python (*1 year experience*)
- Strong foundation in C (*1 year experience*)
- Docker / Containers
- Git / Version control
- MySQL / SQL
- Ability to function in highly dynamic environment
- Highly-driven and self-motivated
- Attention to detail
- Linux (Ubuntu, Alpine)
- Agile / Scrum

## Highlight Projects

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### FRIO MX

Led a four-member team to build a sports betting simulator that depends on teams' statistics to simulate scores. Designed a complete match simulation based on attack and defense statistics. Implemented a fully functional and user-friendly graphical interface using Tkinter. Deployed a user login and registration feature with email authentication.

- Built in Python - Tkinter - SMTP - JSON file management

- Link to GitHub Repository: <https://github.com/Pisich/FRIO-MX>

### ClassAutomation

Led a three-member team to create a script for students that joins their online classes at the right time. Built codebase to support different videoconference applications like Cisco Webex, Zoom and Microsoft Teams. In charge of optimizing the final product, successfully reducing memory usage by 25%.

- Built in Python - Kanban board - Unit testing

- Link to GitHub Repository: <https://github.com/Pisich/ClassAutomation>

### HorseBetting

Deployed a horse race betting simulator contained within Docker. Implemented use of threads to boost performance up to 10%. The program can be run in any system since it is inside a Docker container.

- Built in C - Use of pointers - Multithreading - Contained App

- Link to GitHub Repository: <https://github.com/Pisich/HorseBetting>

## Education

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### Systems Engineering

Instituto Tecnológico y de Estudios Superiores de Occidente (ITESO)

08/2019 – Present

Expected graduation year: 2022

### High School

TecMilenio University

08/2016 – 06/2019

## Key Achievements

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Led the only freshman team in a coding competition hosted by my university and finished third.