


# Daniel Sánchez Domínguez

## Software Engineer

(+52) 811 84 71 700

[amaniel2718@protonmail.com](mailto:amaniel2718@protonmail.com)

 [Github](#)

[DanEscher98](#)

 [LinkedIn](#)

[Danyiel Colin](#)

Experienced Software Engineer with +3 years specializing in backend development. Enthusiastic about mentoring and sharing knowledge with team members. Thrives in collaborative environments that encourage idea exchange. Possesses a research-oriented mindset, particularly drawn to abstract mathematics and functional programming.

## PROFESSIONAL EXPERIENCE

16.Oct.2023

Dic.2023  
RISTOC

- Automation project for

*Automatized the workflow of an online automotive parts store.*

- *PostgreSQL* database
- backend logic in *Python*
- Shopify integration and automated workflows with *Zapier*

Jul.2023

Dic.2023

Protocol Blockchain Developer

- CriptoMx Guardian

*Working at the design of smart contracts in **Rust** to implement a liquidity staking protocol in the **VARA** network using the **GEAR** framework.*

Apr.2023 - ...

Freelancing projects

*Working to develop a basic cybersecurity toolchain (a Fuzzer and Static Analyzer) for analyzing vulnerabilities in WASM binaries used in **Ink!** smart contracts. Utilizing **Rust** for the implementation.*

15.Jan.2022

19.Dec.2022

Embedded Systems Engineer



John Deere

*Worked in an Agile team using **Linux**, **Python**, **C**, and **ARM**. Accomplishments include: design and implementation of a kernel*

*driver for communication between a processor and a microprocessor through **UART** and the **IOP** protocol, developing a **Python** CLI app for booting only **USBs** with verified **ISO** images in **Windows**, solving build issues in **Jenkins**, and implementing a **RTOS** module to convert **CAN** to **Bluetooth**, taught a series of courses on **Rust** and its application in embedded systems.*

Summer 2022

Consultant Web Developer



ABC Logistica

*Contracted to document and implement tests in **PHP** using the **Laravel** framework. Worked with languages like **SQL** and **JavaScript**.*

## ACADEMIC ACTIVITIES

20-23.Sep.2023

Tijuana : 3er place

Hackaton Cripto México

*Developed a functional MVP of a **Liquidity Stake** over the **VARA** network. The **smart contracts** were programmed in **Rust**.*

17.Aug.2023

Workshop at CryptoLatin Fest : (Colombia)

*Conducted a workshop targeting developers interested in learning **Rust** and writing smart contracts with **Ink!**.*

07.Jun.2023

Workshop at Univ. Iberoamericana



Rust Instructor in a

*Workshop oriented to university students, focused to teach them solid foundations on **Rust** and writing smart contracts with **Ink!**.*

10-22.Nov.2020

: Gold medal



iGEM Competition

*Modification of a bacterium for the expression of ranspumins, a thermo-resistant protein, for producing fire-fighting foam.*


Summer 2020

Verano Virtual de Matemáticas organized by UNAM

X Escuela de

de Matemáticas

01-04.Nov.2019 : Bronze medal (Boston, USA)

 **iGEM Competition**

*Focus on numerical methods to model pandemic dynamics using Python*

*Designed genetically engineered bacteria for digesting toxic compounds. Used Python for numerical simulations and cluster computing. Created an online wiki to document the project. Presented the project at the iGEM competition in Boston, USA.*

Autumn 2019  
sintética

**Túnel de la biología**

*Scientific divulgation activity in which highschoolers were taught about biotechnology through workshops and interactive stands*

Autumn 2019  
CIENCIA UANL

**Program:** CON-

*Participation as organizer Program to promote STEM skills aimed at low-income high school students. Conducted a course on programming concepts and digital electronics.*

04-20.Sep.2019 : FCB-UANL

**Course:** Biotecnología de Cianobacterias y Microalgas

*Hands-on workshop aimed to learn how to extract microalgae, cultivate cyanobacteria and count organisms under a microscope.*

Summer 2019 : CIDEB-UANL

**Course:** Biotecnología Aplicada a Biomedicina Molecular

*Hands-on course to learn DNA extraction techniques, protein purification, and identification of diseases through molecular techniques.*

2018-2022

**Network Engineer : UANL (Mexico)**

*Focused on systems programming and embedded development*

Autumn 2020 - Summer 2021

**Qubit by Qubit : IBM**

 **The Coding School's**

*Completed a two-semester Quantum Computing course using the Qiskit framework*

Spring 2022

**Cohort : IOHK**

 **Plutus Pioneers 3rd**







*Completed a hands-on course using Haskell to learn about the Cardano Blockchain and Smart Contracts development.*

## SKILLS AND QUALIFICATIONS

### Languages

**Native:** Spanish, **C1:** English, **A2:** French

### Programming Languages

**Advanced:**  Rust,  Python,  C,  Bash; **Intermediate:**  Haskell,  PHP/Laravel

## EDUCATION

Jan.2023-Feb.2023  **Polkadot Blockchain Academy : Parity x UBA (Argentina)**

*An in depth course, research oriented, working with core libraries of the Substrate framework in Rust*