Daniel Sánchez Domínguez
Software Engineer

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PROFESSIONAL EXPERIENCE

07.Jun.2023	**Rust Trainer in a Workshop at Univ. Iberoamericana** *Conducted a workshop targeting developers interested in learning **Rust** and writing smart contracts with **Ink!**.*
Apr.2023 - ...	**Freelancing projects** *Currently 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	**John Deere** Embedded Systems Engineer *Worked in an Agile team using Linux, Python, C, and ARM. Accomplishments include designing and implementing 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, resolved build issues in Jenkins, and implementing a module in RTOS to convert CAN to Bluetooth. Also taught a series of courses on Rust and its application in embedded systems to engineers on the organization.*
Summer 2022	**ABC Logistica** Web Developer *Contracted to document and implement tests in PHP using the Laravel framework. Worked with languages like SQL and JavaScript.*

EDUCATION

Jan.2023- Feb.2023	**Polkadot Blockchain Academy** : **Parity** x **UBA** (Argentina) *An in deepth course, research oriented, working with core libraries of the **Substrate** framework in **Rust***
2018-2022	**University studies as Network Engineer** : **UANL** (Mexico) *Focused on sistems programming and embedded development*
Autumn 2020 - Summer 2021	**The Coding School's Qubit by Qubit** : **IBM** *Completed a two-semester Quantum Computing course using the **Qiskit** framework*
Spring 2022	**Plutus Pioneers 3rd Cohort** : **IOHK** *Completed a hands-on course using **Haskell** to learn about the Cardano Blockchain and Smart Contracts development.*

ACADEMIC ACTIVITIES

10-22.Nov.2020	**iGEM Competition** Gold mendal as member of the FCB-UANL team *Modification of a bacterium for the expression of ranaspumins, a thermo-resistant protein, for producing fire-fighting foam.*
Summer 2020	**X Escuela de Verano Virtual de Matemáticas** organized by the **UNAM**

	Focus on numerical methods to model pandemic dynamics using Python
01-04.Nov.2019	**iGEM Competition** Bronze medal as member of the UANL team
	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	**Túnel de la biología sintética**
	Scientific divulgation activity
Autumn 2019	**Program: CON-CIENCIA UANL** 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	**Course: Biotecnología de Cianobacterias y Microalgas** : **FCB-UANL**
	Hands-on workshop given by MSc. Alejandra Torres Ariño, aimed to learn how to extract microalgae, cultivate cyanobacteria and count organisms under a microscope.
Summer 2019	**Course: Biotecnología Aplicada a Biomedicina Molecular** : **CIDEB-UANL**
	Hands-on course given by MSc. Heber Torres Cordero, to learn DNA extraction techniques, protein purification, and identification of diseases through molecular techniques.
Feb.2019	**Olimpiada del Conocimiento** organized by the UANL: 3rd place
Sep.2017	**Festival Internacional y Masterclass de Piano** : **UANL**
	Participation as pianist interpeter
Jul.2017	**2º Concurso Nacional de Piano** : **Universidad de Guadalajara**
30.01.2015	**Concurso Nacional de Jóvenes Pianistas Parnassós** on the Fourth Level

SKILLS AND QUALIFICATIONS

Languages

Native tongue	Spanish
C1	English
A2	French

Programming Languages

Advanced	Bash/Linux
Advanced	Python
Proeficient	Rust
Proeficient	C
Intermediate	Haskell
Basic Skills	PHP/Laravel

LINKS OF INTEREST

	Github	DanEscher98
	LinkedIn	Danyiel Colin
	Dev.to	Technical blog
	iGEM project	iGEM UANL 2019
	iGEM project	iGEM FCB-UANL 2020
	Workshop	Youtube Rust Workshop in Spanish