

LUIS SANTIAGO SAUMA PEÑALOZA

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EDUCATION

Tecnológico de Monterrey, B.S. Computer Science and Technology

August 2022 - June 2026

Coursework: Machine Learning, Object Oriented Programming, Data Structures & Algorithms, Databases, Web Development, Mobile Development and Mathematics

GPA: 97/100

WORK EXPERIENCE

Software Engineer

ECONOTRANSFER

Feb. 2024 – Jan. 2025

Remote

- Automated the startup's buying and selling processes using **Python**, leveraging **web scraping** and **API integration** to reduce **overall processing time** by **30%**.
- Developed a **24/7** consultation and order **system** with **JavaScript**, streamlining workflows and improving data accuracy, significantly enhancing operational **efficiency**.

Artificial Intelligence Intern

MOSTLA

Jul. 2024 – Present

Monterrey, Mexico

- Developed **AI solutions** using **Python** and **JavaScript**, including internal GPTs and machine learning models, boosting data management by **35%** and expanding user engagement through **interactive models**.
- Showcased these AI solutions at **academic technology exhibitions**, illustrating applications of AI in education and technology to ambassadors, business leaders, and stakeholders.

EXTRACURRICULAR ACTIVITIES

Student Leader at the School of Engineering and Sciences

Since 2024

Monterrey, México

Selected for a prestigious ITESM initiative to represent the engineering field and lead value-driven projects. Currently spearheading a project to improve communication between faculty and students.

Finance Director | CybersecurityTec & IEEE Student Group

Since 2024

Monterrey, México

Manage budgets and quotations for events, ensuring cost-effective execution and supporting impactful initiatives in cybersecurity and engineering.

MAJOR PROJECTS

Clínica Penal App | Kotlin, Firebase, Gemini AI

Github

- Led the development of an **Android app** for an NGO providing legal services to low-income communities, acting as **Scrum Master** to manage agile workflows and deliver front-end and back-end features on time.
- Developed tools to streamline appointment scheduling, case tracking, and centralized storage for legal case documents, **reducing processing times by 40%** and improving user engagement.
- Implemented **Firebase Authentication** for secure user access and integrated a multilingual **AI-powered chatbot** to handle FAQs, reducing response times and improving accessibility for users.

CoCody Compiler | Python, LLVM, Gemini AI, Rply, Anaconda, Bash

Github | Demo

- Developed an **educational programming language** to teach programming fundamentals in the Hispanic community, featuring intuitive syntax and support for variables, loops, and conditionals.
- Implemented classic **algorithms** like BubbleSort and QuickSort, integrated **AI-powered** code documentation and translation, and created a visual debugger for algorithm representation.
- Led a team of two to win **1st place at the Código Facilito Hackathon** among 130+ participants.

Algorithm | React.js, JavaScript, SCSS, SQL

Figma | Github

Website

- Created a groundbreaking **educational app** that merges algorithm visualizations with dynamic musical feedback, providing a **multisensory** approach to learning complex **data structures and algorithms**.
- Designed and implemented interactive features, including real-time step-by-step visualizations, customizable musical instruments, and detailed explanations, to make the learning process engaging and **highly intuitive**.

SKILLS

Programming Languages: **Proficient:** C++, Python, Javascript, CSS, Bash, SQL. **Beginner:** Java, Swift, Kotlin, Go, PHP, C#, Erlang, Assembly
Technologies: Node.js, React.js, Next.js, Flask, Firebase, Vercel, Azure, GCP, OpenAI, Git, Figma, Jira, Notion, LLVM, Android Studio