

SOFTWARE ENGINEER WITH FINANCIAL MANAGEMENT EXPERTISE

Innovative and results-driven software developer with 4+ years of experience in software development and 10+ years in financial management. Strong background in data analysis, process automation, and financial reporting with a strong interest in AI.

PROFESSIONAL EXPERIENCE

Software Development Projects

2020 - Present

Contracted work:

- **Bank of Mexico: No Fee, direct digital payments API Implementation** (CoDi, Codigo Digital)
 - Developed a Node.js Express, API to enable real-time payments, eliminate transaction fees and settlement delays
- **AI Property Management Application Screener:** [daysaver.ai](#)
 - AI automated rental application screener for property management
- **Salsa Candela SA de CV: Dance Academy ERP system:** www.salsa-candela.com | [intro video](#) | [bar app](#)
 - Automate admin processes for franchises with 5 branches and over 10,000 monthly users.

Inverkomo SA de CV:

- **Investment Portfolio Financial Dashboard:** [Video](#) | [GitHub](#) | [Technical design](#)
 - Investment Portfolio Dashboard using Python, Docker, SQLite, and Grafana.
 - Consolidates multiple bank accounts into a single investment portfolio with automated data processing.
 - Implemented customizable dashboards and dynamic graphs for financial data analysis.
- **Financial Reporting Automation:** [Example report](#) | [GitHub](#)
 - Automated financial reporting system using Python and Jupyter Notebook.
 - Integrates with Financial Modelling Prep API for real-time data retrieval.
 - Used to identify potential investments under a value investing approach.
- **IoT Monitors & automations:** [Blog Water Level](#) | [GitHub Water Level](#) | [Blog Energy Monitor](#) | [GitHub Energy Monitor](#)
 - Water and electrical energy monitors using Python, C++, and various IoT technologies for industrial processes..
 - Implemented data collection and analysis using MQTT, Node-Red, Grafana, and InfluxDB.
 - Demonstrated proficiency in Unix/Linux environments and shell scripting.

Inverkomo SA de CV - Single Family Office

Nov 2014 – Dec 2024

Investment Manager

Mexico City, Mexico

- Oversee financial management of a single family office in Mexico City with over 150 million USD in liquid assets.
- Developed automation tools for financial reporting, saving over 1 million USD annually.
- Designed and implemented a scalable and secure platform for secure data management.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Bash. Learning Typescript
- **Databases:** MongoDB, InfluxDB, MySQL, SQLite.
- **Web Technologies:** HTML, CSS, Express.js, Node.js, EJS, React Js. Learning NextJS and ReactNative
- **Version Control:** Git, GitHub.
- **Data Analysis & Visualization:** Jupyter Notebook, Grafana, Pandas, NumPy.
- **Testing:** Unittest (Python), Jest (JavaScript), GitHub Actions.
- **Cloud & Containerization:** Docker.
- **Operating Systems:** Linux, MacOS, Windows.
- **Financial Tools:** Excel, Quickbooks, FMP API, Yahoo Finance API, financial modeling and analysis.

EDUCATION

Technological Institute of Mexico (ITAM)

Master of Business Administration (MBA), Emphasis on Corporate Finance

Oct 2010 – Oct 2012

Mexico City, Mexico

The National Autonomous University of Mexico (UNAM)

Bachelor of Science, Research & Experimental Psychology

Jan 2006 – Dec 2010

Mexico City, Mexico