

# Claudio Vilas Boas

SENIOR SOFTWARE ENGINEER · BLOCKCHAIN & EMERGING TECHNOLOGIES

☎ (+55) 47997348932 | ✉ claudiocarvalhoilasboas@gmail.com | 🌐 claudiovilasboas.io | 📷 claudiovb | 📄 claudio-boas-b85555b9 | ✉ claudioboass |  
Dual citizen: 🇧🇷 Brazilian 🇮🇹 Italian

“Simple can be harder than complex: You have to work hard to get your thinking clean to make it simple.”

## Summary

Innovative software engineer and technical leader with over six years of experience in blockchain, fintech, and distributed systems. Passionate about transforming complex challenges into simple, scalable solutions, I excel in driving technological innovation across startups and established enterprises

## Skills

TechSkills	Smart Contracts, Blockchain, Distributed Systems, CI/CD, Cryptography, Systems Architecture, Algorithms, Data Structures, Machine Learning, MicroServices
DevOps	Docker, Kubernetes, Terraform, AWS, Google Cloud, GitHub Actions, Prometheus, Grafana
Back-end	Node.js, Express, NestJS, PostgreSQL, MongoDB, Redis, RabbitMQ, WebSockets, Gin, Axum, Hardhat, Foundry
Front-end	React, React Native, Next.js, Tailwind CSS, Web3.js, Ethers.js
AI	PyTorch, TensorFlow, Scikit-Learn (limited exposure), Reinforcement Learning (exploratory), ElisaOS (AI-Agent framework)
Programming Languages	Go, Solidity, Rust, Python, JavaScript, TypeScript, C++, C, C#, LaTeX
SoftSkills	English (Fluent), Portuguese (Fluent), Italian (Limited Working Proficiency) Technical Leadership, Team Management, Strategic Thinking, Problem-Solving, Cross-Functional Collaboration, Decision-Making, Mentorship, Communication

## Work Experience

Uno Re	January 2024 – Present
LEAD ENGINEER	Dubai, UAE
<ul style="list-style-type: none"><li>Appointed as <b>Lead Engineer</b> following Syslabs’ acquisition of a majority stake in Uno Re, <b>overseeing the restructuring of Uno Re backend (Node.js)</b> during the transition to Lunos, which is a complete rebranding of the project post acquisition</li><li>Directing the <b>redeployment of Uno Re V3</b>, smart contracts optimizing the protocol in many different segments</li><li>Pioneered an AVS automated claims system implementing <b>AI agent-based workflows</b> and tested <b>inference</b> for claims, leveraging a <b>P2P network architecture</b> optimized for distributed, real-time applications</li></ul>	
Pollum	January 2021 – 2024
CO-FOUNDER & CTO	Florianopolis, Brazil
<ul style="list-style-type: none"><li>Orchestrated development of Pali Wallet, scaling to <b>20,000+ downloads</b>, the code is all open-source and can be seen at my github or through my personal website</li><li>Designed and optimized <b>blockchain infrastructure</b>, focusing on <b>smart contracts</b>, RPC nodes orchestration, systems design and architecture</li><li>Led 40+ engineers across multiple blockchain projects for Syscoin, Solana, Near and other startups with high-quality execution. Always a hands-on leader working together on the product</li><li><b>Impact:</b> Strengthened Pollum’s reputation as a <b>leading blockchain solutions provider</b> before transitioning into an advisory role</li></ul>	
Luxy	September 2021 – March 2023
BLOCKCHAIN ENGINEER (ACQUIRED BY SYSLABS)	Dubai, UAE
<ul style="list-style-type: none"><li>Engineered audited smart contracts for an NFT marketplace deployed in production on 4 EVM chains (Syscoin, Polygon, others). Optimized for gas-efficient and scalable transaction processing; open-source code available on GitHub</li><li>Built a backend using <b>Node.js</b>, <b>MongoDB</b>, and <b>RabbitMQ</b> across two <b>microservices</b>, indexing millions of ERC721 and ERC1155 NFTs from Ethereum into a <b>multi-gigabyte database</b> with high-performance processing</li><li><b>Impact:</b> Facilitated Luxy’s <b>acquisition</b> by Syslabs, securing its integration into a broader blockchain ecosystem</li></ul>	

## BTG Pactual

Sao Paulo, Brazil

SOFTWARE ENGINEER

Jul. 2020 - Jan. 2021

- Optimized High-Frequency Trading: Enhanced **Dolarbot**, an automated USD/BRL futures trading bot, significantly improving execution speed and strategy efficiency. Upgrades, mostly algorithmic optimizations, led to winning high-value auctions, generating millions in profits by outperforming competing systems
- **Built a Private Liquidity Market:** Developed **BLOX**, a privacy-focused large-order execution system for institutional investors
  - Designed the order-matching system, ensuring high integrity and low-latency execution
  - Integrated with BTG's Order Management System (OMS) for seamless trade execution
  - Developed a graphical admin interface for system oversight and management
- **Impact:** Improved **BTG's institutional trading efficiency**, securing **high-value market opportunities** and enhancing liquidity execution

## Advisory & Consulting Roles

### Pollum

2024 – Present

TECHNICAL ADVISOR

Florianopolis, Brazil

- Provide high-level technical consulting on blockchain and AI solutions
- Advise on Pali Wallet's roadmap and new projects architecture

## Education

### Federal University of Santa Catarina (UFSC)

Mar. 2014 - Apr. 2022

B.S. IN ELECTRONICS ENGINEERING

Florianopolis, Brazil

- **Relevant Coursework:** Machine Learning, Data Structures (C++), Signal Processing, Embedded System Security, and Image Processing
- **End-of-Course Project:** Developed a protocol for decentralized token marketplaces using blockchain technology

## Extracurricular Activity

### Quan Digital

2019 – 2021

QUAN DIGITAL & PRYNO (ENTREPRENEURIAL PROJECT)

Florianopolis, Brazil

- Founded Quan Digital to pioneer automated trading strategies and serve as a research hub for technical analysis in the cryptocurrency market
- Developed **Pryno**, an open-source trading bot for Bitmex featuring comprehensive **back-testing**, integrated REST and **WebSocket APIs**, and tailored **AWS EC2** deployment

### LINSE University Research Lab

2015 – 2019

RESEARCH EXPERIENCE

Florianopolis, Brazil

- Immersed in advanced **signal processing** techniques and extensive academic literature, laying the foundation for a career in technology and research
- Contributed to the **G718 Codec Implementation** by translating CODEC G718 from C to Assembly for the BF533 DSP (Blackfin, Analog Devices), showcasing low-level programming expertise.
- Developed a **Digital Pedalboard** project by first implementing audio effects on an **Arduino** platform, then porting the solution to an **Android app**. Developed in C++, the app processes real-time guitar input via the phone's P2 jack and outputs effects (equalizer, chorus, reverb, fuzz) through a Bluetooth sound system, demonstrating robust embedded systems and signal processing expertise
- Developed **SparkingLot**, a comprehensive parking management solution featuring:
  - A **React Native** app for iOS and Android enabling parking spot reservations
  - A supervised learning network using **SVM** to classify parking spot availability from camera images
  - A REST API server for efficient data acquisition and app communication

### Brazil Unified Health System (SUS)

2019

HACKATHON SUS (3RD PLACE)

Florianopolis, Brazil

- Developed a **Telegram chatbot** and trained a **neural network** on SUS patient data to predict no-shows

### Intel

2016

INTEL EMBEDDED SYSTEMS COMPETITION

Joao Pessoa - Brazil

- Co-created Project **MICE**, advancing it to finalist status in a competitive event and earning multiple Intel embedded systems prizes that were subsequently donated to **UFSC**
- Built an intelligent energy meter using **Arduino** and a **CNN** on Galileo Gen2, **achieving 98% accuracy in real-time** residential power consumption analysis

### University Project

2018

FINANCIAL STOCK PREDICTION (FINAL ML PROJECT)

Florianopolis, Brazil

- Developed a **TensorFlow**-based hybrid model for **S&P500** forecasting using PSO-optimized **LS-SVM** and technical indicators. This research-inspired approach offers a robust alternative to CNNs

### University Project

2018

MUSIC-SHEET READER (FINAL IMAGE PROCESSING PROJECT)

Florianopolis, Brazil

- Built an algorithm to **detect musical notes** from a sheet and convert them into **MIDI format**