



Alex Colls Outumuro

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Location: Barcelona, Spain

As a highly experienced software architect and developer, I have spent over a decade working at the intersection of technology and financial systems. My expertise spans full-stack development, blockchain, and high-frequency trading systems, where I've developed a keen analytical mindset and problem-solving approach. With a strong foundation in programming languages like Rust, C, C++, C#, Python, Javascript/Typescript and Solidity, I have consistently delivered scalable and high-performance applications. I thrive on tackling complex challenges, from building decentralized apps and NFT marketplaces to managing large-scale data migration projects. My experience leading development teams and collaborating across diverse fields has further sharpened my ability to navigate intricate systems with a solutions-driven focus, always keeping innovation at the forefront. I'm always learning something new and seeking new challenges.

Experience

Jun 2024 - Present | INNOCV Solutions - Software Architect

I work with multiple dev teams and supervise multiple international projects. Still coding.

Oct 2023 - Jun 2024 | INNOCV Solutions - Senior Developer

Developed full stack applications with .NET Core, React (Next), Vue (Nuxt3) and Python for migrating and cleaning a 30 years old large database.

Apr 2022 - Sep 2023 | Games for a living (GFAL) - Web3 Dev Lead

Managed a small team of developers. We built a fully functional NFT Marketplace for Unity games, with Solidity (Binance Smart Chain), Node and Vue3.

Jan 2023 - Apr 2023 | Theia AI Labs - Full Stack Developer

Developed a 3D animated blob connected to different LLM, Text-to-speech (TTS) and Speech-to-text (STT) models which allowed it to 'reasoning', listen and speak. Project ran out of funds.

Jul 2022 - Jan 2023 | Beenzer dApp - Full Stack Web3 Developer

Built a mobile decentralized app (dApp) with React Native (TS) and Solana Blockchain (Rust) that allowed users to create content (image/video) and mint it while the NFT staid in Google maps for other to interact with it, like minting copies paying directly to the creators. It had a reel like TikTok. I built the server in Rust to handle fast and concurrent data exchange.

Jun 2021 - Nov 2022 | Solana Labs - Web3 Developer

Contributed in open source projects like the Solana Program Library (Rust), Solana Pay (React), Wallet Connectors (React). I learned a lot not just on Solana Blockchain but Solidity as well as I had time to experiment with the Ethereum Virtual Machine (EVM).

Jan 2021 - Jun 2021 | Sion Foundation - Blockchain Consultant

Through the Sion Foundation I had the opportunity to advise the President and the government of the Central African Republic on the possibility of digitizing their economy with a full stack application for citizens and tourists that allow them to make peer-to-peer transactions of a common digital currency.

Mar 2015 - Sep 2020 | Nexow Systems - Quant Trading Lead

I led a team of 22 people, most of them scientists. During the time in Nexow we had built a high-frequency trading (HFT) ecosystem with C, C++, C#, Node and Python. We traded over 50 exchanges, on multiple markets, mostly derivatives. I built over 100 trading strategies, mainly in C for Foreign Exchange (FX) and Commodity Futures HFT. Worked a lot in Python and Julia as well with very large datasets.

Oct 2014 - Jun 2015 | Ethika Global Consulting - FX Quant Trader

Built FX algorithms and managed some hedge fund's trading accounts.

Sep 2013 - Sep 2014 | RBL Family Office - Jr. Quantitative Portfolio Manager

I built a cointegration signal algorithm with R, and we placed the orders manually on the Bloomberg Terminal.

Mar 2013 - Aug 2013 | GVC Gaesco - Financial Broker

I sold mutual funds and stocks while I was starting to code.

Sep 2012 - Apr 2013 | Teletrade Europe - Futures & FX Broker

I sold trading accounts while I was starting to trade.

Education

2023 - 2024 | Universitat Politècnica de Catalunya - MEng Cybersecurity

2022 - 2023 | Codeworks - Software Engineering

2020 - 2021 | LeWagon - Data Science

2013 | IEF - Macroeconomics

2012 | CFTE - Technical Analysis

2010 - 2011 | SAE Institute - Audio Engineering

Languages

English - Proficient (TOEFL Certified)

Spanish - Native

Catalan - Native

Galician - Native

Portuguese - Basic proficiency

Coding Languages

Rust - 4 years

C - 4 years

C++ - 3 years

C# - 2 years

Bash - 7 years

Javascript/Typescript - 6 years

Python - 8 years

Julia - 2 years

R - 3 years

Solidity - 2 years

PHP - 1 year