

Contact

hello@astral-horizon-labs.com

www.linkedin.com/in/stephane-roche (LinkedIn)

astral-horizon-labs.com (Company)

Top Skills

Express.js

Serverless Computing

Microservices

Languages

Spanish (Full Professional)

French (Native or Bilingual)

Portuguese (Limited Working)

English (Full Professional)

Certifications

Typescript: The Complete Developer's Guide (24.5 hours)

Software Architecture Case Studies (3.5 hours)

Learn Modern C++ Fundamentals (13.5 hours)

Kotlin Design Patterns (4 hours)

NodeJS: Advanced Concepts (16 hours)

Stéphane Roche

Senior Software Engineer · DeFi & Smart Contracts (Bitcoin · Sui/Move) · AI-Native Product Builder · Founder @ Astral Horizon Labs
Paraguay

Summary

Senior software engineer (10+ yrs) and founder of Astral Horizon Labs — I ship like a whole product team, on my own, by orchestrating the right AI tools across the stack. Two things I'm known for: → DeFi & crypto engineering. I've been in crypto since the start of my dev career — first writing Bitcoin wallet code at Ledger, then a founding member of Ethereum France (non-profit promoting Ethereum in France) and a Bitcoin-development trainer (Alyra, KryptoSphere, Breaking Bitcoin). 5+ years building Bitcoin/Liquid protocols (the TDEX DEX ecosystem, the Marina wallet, atomic swaps), plus Ethereum/Solidity and Move-on-Sui smart contracts — across the three major smart-contract families. As an active investor in both TradFi (equities, ETFs) and crypto since 2015, I understand the financial products I build, not just the tokens. A strong fit for DeFi and RWA tokenization work. → AI-native product development. I build generative-AI and agentic systems and integrate them into real products. I also run my own fleet of specialized AI agents — I don't just talk about AI orchestration, I operate it daily. Full-stack across web (React, Next.js, Nuxt, Svelte, etc), mobile (Kotlin Multiplatform, Flutter, React Native), and desktop (Tauri, Electron), with a TypeScript core and backends on Node, serverless and Kubernetes. I've taken products from zero to market end-to-end — including Piko marketplace (mobile and web), built solo from code and design to marketing and go-to-market. Open to: senior product builds for founders & teams, and Move/smart-contract work for crypto protocols. hello@astral-horizon-labs.com

Experience

Volalti AG

Mobile Engineer (Kotlin Multiplatform) — Bitcoin Wallet
April 2026 - July 2026 (4 months)

Switzerland

Thalia — a cross-platform mobile Bitcoin wallet built with Kotlin Multiplatform / Compose.

- Multi-layer Bitcoin support: on-chain, Lightning, and Ark, plus TradFi integration.
- Led product design and UI design (from an early mockup) through to full implementation.
- Shared Kotlin Multiplatform codebase targeting mobile, with a Compose UI.

BitGPT

Full Stack Engineer

February 2025 - January 2026 (1 year)

- Building autonomous payment systems for AI agents
- Developing agent-to-agent crypto transactions at 402Pay (<https://www.402pay.com/>) and next-gen e-commerce platforms
- Focused on creating seamless financial infrastructure for the autonomous economy

Prem

LLM Engineer

August 2023 - February 2025 (1 year 7 months)

- Building BitGPT (<https://chat.bitgpt.network/>). Crypto expert chatbot. Top-up with cryptos, check your balance, make payments, cross-chain swap, ask anything.
- Building production generative AI applications using libraries like LangChain and LlamaIndex.
- Creating a desktop and web application for LLM inference on a multitude of infrastructure: local machines, cloud, on premise, experimentation with the decentralized Petals network.
- Deploying, monitoring, maintaining Large Language Models for optimal performance across diverse applications.

Sevenlabs FZCO

Bitcoin/Liquid Software Engineer

December 2020 - August 2023 (2 years 9 months)

- Marina browser extension, wallet for the Liquid network (Bitcoin sidechain) using Typescript, React, Tailwind.
- Building the TDEX ecosystem, P2P atomic swap trading for Liquid assets. Trading mobile app made with Ionic. Dashboard to administrate liquidity provider TDEX daemon (web and desktop using Tauri). Various TDEX/Liquid libraries. Various web apps and websites.

SevenLabs

Web Specialist

September 2020 - November 2020 (3 months)

Marina browser extension, wallet for the Liquid network (Bitcoin sidechain) using Typescript, React, Tailwind. Developing the TDEX ecosystem, p2p atomic swap trading for Liquid assets. Trading mobile app made with Ionic. Dashboard to administrate liquidity provider TDEX daemon (web and desktop using Tauri). Various TDEX/Liquid libraries. Various web apps and websites.

Bitcoin Studio

Developer/educator

October 2017 - November 2020 (3 years 2 months)

- Multiple technical trainings for Alyra.fr, Eureka Certification, KryptoSphere, Breaking Bitcoin 2019
- Consulting
- Educational material. Extensive guide about the BitcoinJS library. Used as the base material for my technical trainings. (<https://bitcoinjs-guide.bitcoin-studio.com>)
- Node setup, Nespresso capsule dispenser over Lightning Network, websites, web apps, etc

dether

Ethereum & Javascript developer

June 2017 - September 2017 (4 months)

- Worked on a web app that facilitates in person cryptocurrency trading, based on Ethereum
- Wrote Solidity smart contracts
- Deployed and tested smart contracts with Javascript infrastructure tools (Web3, Truffle, Infura)
- React.js user interface

Anaplan

Javascript Web Developer

September 2015 - October 2016 (1 year 2 months)

Paris

- Worked on user interfaces for the Anaplan enterprise planning cloud with React.js, Sass, extensive testing, best practices
- Chrome extension leveraging DocuSign API
- Agile methodology, daily scrum meetings, Jira

Ledger

Web developer / bitcoin blockchain

March 2015 - August 2015 (6 months)

Paris

- Bitcoin wallet chrome extension for the Ledger hardware wallet (language CoffeeScript)
- Extensive unit testing

Freelance

Web developer / SEO consultant

September 2013 - July 2015 (1 year 11 months)

- Created simple websites and web applications with HTML, CSS, JQuery, Wordpress
- Evaluated the SEO status of customer websites and provided solutions (links, tags, keywords, ...)
- Marketing campaigns on Facebook, Google AdWords
- Attending web development evening classes in parallel at the CNAM Paris

Maison Radio France

Audiovisual documentalist

February 2013 - July 2013 (6 months)

Paris

- Management of the audiovisual digital archive. Set up a Synology NAS (8 terabytes). Prepared orders of audiovisual files from URTI collection
- Set up a complete workflow from scratch, automated with Automator on Mac. Converting files in different format with FFmpeg, batch-processing, renaming files to follow naming conventions, and then transferred to hard disk

Education

National Conservatory of Arts and Crafts

Professional certificate, Web development · (2013 - 2015)

Paris-Est Créteil University

Master's degree (second year), Audiovisual documentalist · (2012 - 2013)

Toulouse 2 Le Mirail

Master's degree (first year), Contemporary history · (2012)

University of Toulouse-Le Mirail (Toulouse II)

Double bachelor's degree, History / Archaeology · (2011)

Paris-Est Créteil University (UPEC)

Audiovisual Documentalist Master