Fernando Trouw

Lead Developer

Eindhoven, Netherlands (CET) · Dutch citizen, authorized to work in the EU/EEA without sponsorship · open to remote worldwide

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Lead Developer with 8+ years across software and blockchain, building production backend systems, AI pipelines, and smart-contract protocols. Leads engineering at SEOLocal on a white-label SEO platform serving 54,000+ users, with an AI content engine that writes and publishes customer articles end to end. Shipped protocols on Stellar and Optimism mainnet and Proof of Humanity infrastructure for Consensys (Linea). Works in Python, TypeScript, Solidity, and Rust.

Experience

Feb. 2025 – Present
Remote

SEOLocal (formerly Blackwood Productions)

Lead Developer

Python · PHP · FastAPI · Celery · PostgreSQL · pgvector · Redis · pydantic-ai · TypeScript · Next.js · NestJS · tRPC · MariaDB · Docker · Ansible · GitHub Actions · Logfire · MCP

- Built **CADE** (cade.api.imagehosting.space/api/v1/redoc) as sole engineer: the AI content platform behind **SEOLocal** (seolocal.net) that crawls customer sites, researches keywords, and publishes articles through a multi-stage LLM pipeline.
- Cut publish-step latency by 97% by replacing an LLM formatting pass, which took 87% of publish time, with a deterministic formatter.
- Extracted structured business context for every production domain on a FastAPI and Celery backend with priority queues and circuit breakers.
- Led the SEOLocal monorepo as principal engineer: the white-label multi-tenant dashboard (dashboard.seolocal.net) serving 54,000+ users, with reseller domains and Stripe and PayPal billing.
- Replaced a legacy PHP admin in seven weeks with a NestJS data service over the production MariaDB database, secured with API-key and HMAC-signed auth.
- Built and stabilized the SERP rank-tracking service with per-run budgets and an in-flight semaphore so runaway retries cannot recur.
- Built the deployment pipeline for nine production services with GitHub Actions, Ansible, Docker Compose, and Caddy.
- Built BWP Tools as sole author: Claude Code plugins giving three teams guarded, read-only production access through MCP servers.

Mar. 2025 – Present
Remote

Bread.coop (Part-time)

Full-Stack Blockchain Developer

Rust · Soroban SDK · Next.js · React · NestJS · TypeScript · Tailwind · Vitest · Docker · Vercel

- Secured a $10,000 Stellar Foundation grant for **CoopStable** (coopstable.app), a cooperative stablecoin protocol on Stellar built as sole engineer.
- Launched four Soroban smart contracts in Rust on Stellar mainnet in July 2025 that lend USDC collateral on Blend Capital and distribute only the yield.
- Preparing the protocol to onboard about $50K in USDC deposits.
- Re-architected yield claiming into a three-stage flow after large distributions hit Soroban's per-transaction resource limits.
- Built the Next.js dApp with Stellar Wallets Kit and a NestJS worker that claims and distributes yield on a schedule.

May 2024 – Feb. 2025
Netherlands – Remote

Consensys

Sr. Fullstack Engineer

TypeScript · NestJS · Node.js · Prisma · PostgreSQL · Solidity · Viem · React · Next.js

- Led the **Linea Proof of Humanity worker** from first commit to production in three months, with a Goldsky data pipeline and a Kubernetes rollout.
- Enabled partner protocols on Linea, including **Renzo Protocol** and **ENS v2**, with technical analysis, guidance, and implementation support.
- Made analysis of 5.5 million Proof of Humanity attestations for roughly 1.5 million users 50% faster with an automated data analysis worker on Verax.
- Identified approximately 29,000 potential sybil addresses among the 1.5 million Linea Surge participants.
- Created a smart contract security framework for onboarding PoH issuers to Verax.
- Contributed to the **Linea ENS** app (names.linea.build) serving over 100k users.

Oct. 2022 – May 2024
Remote

Blackwood Productions (Part-time initially)

Blockchain Engineer | Fullstack Developer

Solidity · Hardhat · OpenZeppelin · TypeScript · React · Redux Toolkit · wagmi · Viem · Ethers.js · NestJS · PostgreSQL

- Led smart-contract engineering on **Hashtag** (hashtag.space) as original author and principal maintainer, a naming protocol on Optimism whose liquidity pool held about $200K in ETH.
- Designed its token economy: an ERC-721 name registry, SPACE token rewards on a bonding curve, staking pools, and a Uniswap V2 fork for liquidity.
- Built the Hardhat toolchain with Slither analysis, gas reporting, and tag-driven qa, staging, and production deploys.
- Added a runtime ABI feed so the frontend needed no rebuild across contract upgrades.
- Integrated the contracts into NestJS backend services and the React dApp with wagmi, viem, Privy, and Sign-In-With-Ethereum.

Feb. 2022 – Dec. 2022
Remote – Vietnam

SmartDev (Verysell Group)

Blockchain Engineer

Solidity · TypeScript · Node.js · React

- Integrated smart contracts into backend and frontend systems with test-driven development, and wrote estimates and statements of work for the sales team.

Feb. 2022 – Jan. 2023
Remote

HeirloomDAO (Contract)

Lead Developer

Solidity · JavaScript · Node.js · React · Express.js · Web3.js · PostgreSQL

- Secured $50K investment with the MVP design for an NFT marketplace, then engineered its Solidity protocol with JWT authentication and Lit Protocol token gating.
- Set up the codebases and developer guidelines, managing two developers.

Apr. 2018 – Jan. 2021
Remote

The Caribbean Blockchain Network

Co-founder, Researcher & Content Producer

Research · Public Speaking

- Facilitated Curacao's first DAO, designing its organizational structure on DaoStack's Alchemy protocol, and researched decentralized governance for Curadao (now Kolektivo Labs).
- Published articles on the network's Medium publication (medium.com/caribbean-blockchain-network), an ebook on blockchain fundamentals, and interviews with industry figures (YouTube, Facebook).

Education

Sept. 2012 – Jul. 2017
Breda, Netherlands

Avans University of Applied Sciences (ESSET)

B.S. in Environmental Science, Minor in Environmental Geography and Atmospheric Science (Wageningen University)

Sept. 2021 – Dec. 2021
Remote

ConsenSys Academy

Blockchain Developer Bootcamp, certified