

# Fernando Trouw

SR. FULLSTACK ENGINEER

Wal20F, 5611GG, Eindhoven, Netherlands

✉ ftrouw@protonmail.com | 📧 RasenGUY | 🌐 ftrouw | 📧 ahumanist

**Certified Blockchain Developer with a keen focus on innovation and personal growth. I am deeply passionate about creating scalable technological solutions and constantly seek feedback to improve. My interests extend beyond coding to embrace the simple joys of life, such as nature, music, and guitar, finding harmony between professional accomplishments and personal fulfillment. My journey reflects a blend of professional success and personal enrichment, aiming for a well-rounded existence.**

## Experience

### Consensys

Remote

SR. FULLSTACK ENGINEER

May. 2024 - Present

Solidity Typescript Node.js React NestJS Ethers.js Viem Postgres Tailwind

- Proof of Humanity (POH) System Enhancement: Implemented comprehensive unit tests for attestation verification on the POH API. Developed automated data analysis worker that was tasked with processing over 5.5 million attestations and servicing roughly 1.5 million users for the POH initiative. Maintained the Linea POH website, ensuring continuous improvement in terms of functionality and features.
- Performance Optimization: Achieved 50% performance improvement in the POH worker system, significantly enhancing system efficiency in analysing all PoH attestation data recorded on Verax.
- Project Enablement: Provided technical analysis for ENSV2 migration on Linea. Investigated and created a framework for integrating a Liquidity Aggregation Adapter on MetaMask Institutional. Contributed to maintenance of Linea-ENS (served over 100k users) code base.
- Security Framework Development: Created and implemented a Smart Contract Security Framework for onboarding new POH issuers to Verax, ensuring robust security measures for the Linea POH Initiative.
- Blockchain Integration Support: Facilitated onboarding of multiple projects to Linea network, including Unfettered (SOULS token) and The Nemesis (NEM token), providing technical guidance and implementation support.
- Sybil Analysis: Identified approximately 29,000 potential sybil addresses within the Linea surge program (over 1.5 million active participants). Did similar analysis on request of the Linea Community team.

### Blackwoods.productions(Freelance) Link

Remote

BLOCKCHAIN ENGINEER | FULLSTACK DEVELOPER

From. Okt. 2022

Solidity Typescript Node.js React NestJS Ethers.js Viem Postgres Bootstrap

- Strategic Analysis and Design Implementation: Conducted in-depth analyses of clients' MVP blockchain concept, researched a Blockchain Domain Name System (DNS), and formulated strategic plans for both design and implementation phases.
- ERC20 Rewards Distribution Protocol: Implemented an ERC20 token rewards distribution protocol, including sub-components such as a custom bonding curve and multiple staking mechanisms.
- Smart Contract Implementation, Testing, Deployment, and Maintenance: Used test-driven development to implement the protocol, applying known ERC standards. Deployed robust smart contracts and ensured their ongoing maintenance, guaranteeing optimal performance and security.
- Back-End Development: Integrated the contracts into multiple Node/Nest.js backend services, which included a syncing module, payment processing API, and order management.
- Front-End Development: Integrated smart contracts into the hashtag frontend, utilizing React, React-Redux, RTK-Query, Ethers.js, and Bootstrap.
- Client Management and Technical Support: Provided the client with weekly demo updates, coupled with comprehensive technical support, ensuring client satisfaction and effectively resolving technical challenges.
- Documentation: Provided detailed documentation to the client on the Blockchain Domain Naming System and the Rewards Distribution Protocol, ensuring clarity and ease of use.

### SmartDev

Remote - Vietnam

BLOCKCHAIN ENGINEER

Feb. 2022 - Dec. 2022

Solidity Typescript Node.js React Project Management Pre-sales

- Project Analysis and Estimation: Effectively dissected project requirements, providing accurate estimations and crafting detailed statements of work to guide project planning and execution.
- Technical Support for Sales: Offered vital technical support to the sales team, enhancing client engagement and contributing to successful sales strategies.
- Smart Contract Integration in Backend Systems: Integrated smart contracts into backend systems, ensuring seamless functionality and enhanced system capabilities.
- Test Driven Smart Contract Development, Deployment and Maintenance: Deployed and maintained smart contracts, ensuring their operational integrity and security.
- Smart Contract Integration in Front-End Systems: Embedded smart contracts into front-end systems, optimized user interfaces and interaction.

## HeirloomDAO (Contract)

Remote

LEAD DEVELOPER

Feb. 2022 - Jan. 2023

Solidity Javascript Node.js React Expressjs web3.js Postgres

- MVP Design and Investment Attraction: Lead the design of a Minimum Viable Product (MVP) that successfully secured a \$50K investment for further development, demonstrating innovation and market viability.
- HeirloomDAO Conceptualization and Technical Design: Realised the HeirloomDAO concept, provided technical front-end, backend and smart-contract solution to meet the project requirements.
- NFT Marketplace Smart Contract Development: Engineered and implemented a smart contract protocol in Solidity for an NFT (DEFI) marketplace, showcasing expertise in blockchain technology and digital assets.
- Client Prospect Technical Support: Delivered expert technical support to potential clients, aiding in client engagement and contributing to business development efforts.
- JWT Authentication and Lit Protocol Integration: Implemented a JWT authentication scheme, integrating the Lit protocol for token gating, thus enhancing system security and user authentication processes.
- Front-End Codebase: Established the front-end codebase and set developer guidelines, ensuring consistency, quality, and efficiency in front-end development.
- Back-End Codebase: Created and managed the back-end codebase, formulated developer guidelines to maintain code quality and streamline backend processes.
- Development Team Management: Managed a team of 2 developers, directing the implementation of product features and fostering a collaborative and productive team environment.

## The Caribbean Blockchain Network

Remote

CO-FOUNDER & RESEARCHER & CONTENT PRODUCER

Apr. 2018 - Jan 2021

Research Community Management Content Creation Public Speaking

- Decentralized Governance Systems Research: Conducted comprehensive research into decentralized governance systems, contributing valuable insights and advancements in the field of blockchain governance on Curacao. **Report**
- Blockchain Technology Awareness Talks: Orchestrated and delivered informative talks aimed at raising awareness about blockchain technology and its pivotal role in decentralized governance, demonstrating thought leadership and public speaking skills. **Curacao - now Kolektivo Labs**
- DAO Organizational Structure Design: Skillfully designed the organizational structure of a Decentralized Autonomous Organization (DAO) using DaoStack's Alchemy protocol, showcasing innovative thinking and strategic planning in blockchain-based organizations.
- First DAO Implementation in Curacao: Played a crucial role in facilitating the establishment of Curacao's first Decentralized Autonomous Organization (DAO), marking a significant milestone in the application of decentralized governance models.
- Interviews and Social Media Publication: Conducted multiple interviews with key players in the blockchain space and effectively published the findings and discussions on various social media platforms, enhancing public engagement and knowledge dissemination in the blockchain community. **Youtube**

## Education

### Avans University of Applied Science - Environmental Science for Sustainable Energy and Technology (ESSET)

Breda, Netherlands

B.S. IN ENVIRONMENTAL SCIENCE, MINOR IN ENVIRONMENTAL GEOGRAPHY AND ATMOSPHERIC SCIENCE (WAGENINGEN UNIVERSITY)

Sept. 2012 - Jul. 2017

- Attained a broad range of competences e.g. scientific research, development, experimentation, management, advising, instruction, supervision and self management
- Worked together with a number of companies from different industries (e.g. Energy, Waste-management, Risk and Safety, GIS) in the field of environmental science and produced reports on experimentation, analysis and advice

## Writing

### Caribbean Blockchain Network

Remote

CO-FOUNDER - WRITER

Dec. 2018 - Dec 2019

- Drafted Blockchain related articles on a monthly basis. **Medium**
- Published an ebook on blockchain fundamentals. **An Introduction To Blockchain Technology**