

SIEGFRIED BOZZA

Full-Stack Software Engineer · Next.js, TypeScript, Node.js · Web3 & Smart-Contract Development

Annecy, France (remote / open to global relocation) · siegfried.bozza@protonmail.com · [GitHub](#) · [Portfolio](#) · [LinkedIn](#)

PROFESSIONAL SUMMARY

Full-Stack Software Engineer with production experience since 2022 building Next.js, TypeScript, Node.js, and Supabase applications, plus hands-on smart-contract development on Ethereum and Base using Solidity and Foundry, integrating Chainlink oracles (VRF, Automation, Price Feeds). Builds agentic, event-driven Web3 DApps and delivers tested Web2/Web3 features in CI/CD — with a research background in molecular biology and engineering that brings scientific rigor and fast cross-domain learning to product and system design.

TECHNICAL SKILLS

Web3 & Smart Contracts: Solidity, Foundry (contracts, tests, deploy scripts), OpenZeppelin (ERC-20/721/1155), Chainlink (VRF v2.5, Automation, Price Feeds), Ethereum (incl. Sepolia), Base (incl. Sepolia), Viem, Wagmi, EIP-712, Reown AppKit, IPFS, Alchemy, Tenderly

Testing & DevOps: Vitest, Cypress, Jest, GitHub Actions, Vercel, CI/CD, Git Flow

Backend & Data: Node.js, Supabase (RPC, RLS, Realtime, Edge Functions, CRON), Neon Postgres, Drizzle ORM, CQRS, event-driven design, Stripe API

Frontend & UI: React 19, Next.js (App Router), TypeScript, TanStack Query / Table, nuqs, Tailwind CSS, shadcn/ui, Zod, Recharts, React Hook Form, Lingui

AI & Orchestration: LangGraph.js (agentic graphs, HITL, checkpointers), Inngest (durable execution), Gemini, Exa AI

Languages: French (native) · English (fluent) · German (B1)

WORK EXPERIENCE

Prismo.io — Hybrid, France · Full-Stack Engineer · Aug 2024 - Present

- Built real-time Next.js dashboard components — combining TanStack Table, nuqs, Recharts, shadcn/ui, Tailwind CSS, React Suspense, and Lingui — consolidating table, filter, and chart interactions into a single interface for dashboard-style workflows.
- Implemented CQRS-backed read/write separation with Supabase triggers, RPC functions, and a typed client, improving separation of concerns and making event-driven updates easier to maintain and test.
- Applied hexagonal architecture, decoupling domain logic from infrastructure through ports and adapters to improve testability and long-term maintainability.
- Added Vitest unit tests and Cypress end-to-end coverage for critical workflows, enforcing CI gates before merge to main and increasing regression protection for release changes.
- Used AI agents in Cursor for planning and implementation, with agent output reviewed under the same PR gates as human code.
- Delivered in two-week sprints via Linear, with peer code review on every PR and Git Flow branching.

Freelance — Remote, France & Indonesia · Full-Stack Developer · Jul 2023 - Aug 2024

- Shipped client-facing React and Next.js features with Tailwind CSS, shadcn/ui, Framer Motion, MongoDB, and Jest, delivering reusable UI components and data-driven pages across client projects.
- Contributed front-end features to DeXter-on-Radix, an open-source decentralized exchange (DEX) DApp, collaborating asynchronously with a distributed team to support Web3 product delivery.
- Worked remotely from Bali, delivering independently across timezones with asynchronous communication.

Renuo AG — Zurich, Switzerland · Software Engineer Intern · Jul 2022 - Jun 2023

- Built and shipped full-stack features using Ruby on Rails, JavaScript/TypeScript, React, and RSpec in agile delivery cycles, supporting production releases across multiple agency client accounts.

SELECTED PROJECTS & OPEN SOURCE

BioVerify — Agentic DeSci DApp · Mar 2026 - Apr 2026 · [GitHub](#) · [Article](#) · [Live](#)

- Peer review as a coordination game: authors submit research artifacts pinned to IPFS and stake ETH, a LangGraph submission agent screens plagiarism (Exa AI + Gemini), Chainlink VRF v2.5 selects reviewers from the staked pool, and human verdicts settle on-chain through a LangGraph review agent (HITL, EIP-712 signatures, on-chain transactions).
- Getter-less Solidity contract; Alchemy Notify webhooks (HMAC verified) project events into Neon Postgres (Drizzle) with optimistic concurrency; Wagmi, Viem WebSockets + TanStack Query drive the live UI.
- Durable orchestration: Inngest (step.run, retries) and LangGraph checkpointers carry multi-day human-in-the-loop review across serverless cold starts.
- BioVerify contract: 50 Foundry tests across 12 suites — 100% lines / statements / branches / functions; deployed on Base Sepolia and Ethereum Sepolia.
- Public Telegram bot mirrors contract state transitions across both testnets.

Bet2Gether — Chainlink-Settled Prediction Market · Oct 2025 - Nov 2025 · [GitHub](#) · [Live](#)

- Operator-free prediction market on Ethereum Sepolia: Chainlink Automation calls performUpkeep to resolve rounds at deadline without operator intervention; settlement reads Chainlink Price Feeds.
- Time-weighted payouts (earlier bets earn a larger share); CEI pattern and OpenZeppelin nonReentrant on claimReward.
- Chainlink VRF v2.5 for unpredictable ERC-1155 reward token IDs; a Tenderly Web3 Action bridges resolution events to a role-gated mint.

Forge — Atomic ERC-1155 Crafting · Oct 2025 - Nov 2025 · [GitHub](#) · [Live](#)

- Experiment in ERC-1155 crafting rules: rules contract (Forge) vs ledger (ERC-1155 FToken) with immutable ownership; composite IDs 3–6 minted via atomic burnBatch + mint in one transaction.
- Cooldown-gated basic mints (IDs 0–2); event-driven Next.js UI with Wagmi, Alchemy WebSockets and TanStack Query.
- Foundry tests — 100% coverage on project-owned contracts (lines / statements / branches / functions).

GavL — Next Auctions: Real-Time Auction Platform · Sep 2025 - Oct 2025 · [GitHub](#) · [Live](#)

- Full-stack Web2 auction platform on Next.js + Supabase, with i18n FR / EN / DE (Lingui).
- Supabase Realtime for live bids and notifications; a CRON job triggers an Edge Function for scheduled auction closure.
- Stripe Checkout with verified webhooks; service-role Supabase client safely bypasses RLS to update payment states asynchronously.
- URL-driven filters (nuqs), TanStack Table, Recharts dashboards, Jest tests

EARLIER CAREER (PRE-SOFTWARE)

KIBAG Gruppe · SERPOL · SITA Remediation (SUEZ) — France & Switzerland · Land Remediation Engineer / Project Manager · 2012 - 2020

- Led environmental fieldwork, soil-sampling operations, subcontractor coordination, and compliance reporting for industrial remediation sites.

University of British Columbia · INSERM — Canada & France · Molecular Biology Researcher · 2001 - 2009

- Genomic research in neural stem cells and epigenetics; co-author on three peer-reviewed publications ([J. Neurosci. Res.](#) · [Fungal Genet. Biol.](#) · [Dev. Biol.](#)).

EDUCATION

2025 — EVM Architecture & Smart Contract Security (core curriculum) — Metana (remote)

2021 - 2023 — M.Sc. Blockchain Technologies — University of Barcelona (remote)

2022 — Full-Stack Software Engineering Bootcamp — Le Wagon, Zurich

2012 — M.Eng. Civil & Environmental Engineering — École des Mines, France

2001 — M.Sc. Molecular Biology & Genetics — University of Montpellier, France