

ADDRESS
📍 London, UK (UTC+0)

EMAIL
✉️ ian.z.tozer@gmail.com

IAN TOZER

Smart Contract Security Engineer
Offensive Security Researcher

GitHub: github.com/i-tozer
LinkedIn: linkedin.com/in/ian-tozer-bb225ba0/
X: x.com/i_tozer
Blog: <https://substack.com/@iantozer>
Telegram: <https://t.me/iantozer>
Public Audits:
<http://audits.sherlock.xyz/watson/bugzyvonbuggernaut>

SUMMARY

Security Engineer with **5+ years in software engineering** specializing in **smart contract auditing, vulnerability research, and LLM-assisted security tooling**. Private auditor for major protocols, contributor to Hound's **knowledge-graph analysis engine**, and discoverer of high-impact vulnerabilities. Strong focus on **exploit-path reasoning, code comprehension tooling, architectural mapping**, and security workflows.

KEY ACHIEVEMENTS

- Discovered **multiple high/critical vulnerabilities** in private audits, including issues missed by top-tier firms.
- **8+ confirmed** public audit findings, including **3 high-severity (2 unique)**.
- **4th place** in a competitive Code4rena smart contract audit tournament.
- **Third-highest contributor to Hound**, a knowledge-graph-driven smart contract analysis framework.

TECHNICAL SKILLS

Security: Smart Contract Auditing, Threat Modeling, Vulnerability Research, Exploit Development
Methods: Exploit-Path Reasoning, Systematic Audits, LLM-Assisted Analysis
Ecosystems: EVM, Solana (working)
Tools: Hound, Slither, Echidna, Foundry, Certora (basic)
Languages: Solidity, Go, TypeScript, Python, Rust
Infra: Docker, Linux, AWS/GCP/Hetzner, Grafana/Loki/Prometheus
Protocols: Uniswap V2/V3, Aave, Compound, DAO & governance systems

EXPERIENCE

TOZER LABS – Founder & Smart Contract Security Engineer

2023 – Present

- Delivered full end-to-end smart contract security reviews, most recently for **Aragon & Benqi**, covering architecture mapping, exploit development, vulnerability classification, and remediation validation.
- **In two recent private audits (2025):**
 - Found **2 high/critical** and **2 medium** vulnerabilities missed by Halborn.
 - Matched the findings of **Cyfrin**, who reported only low-severity issues.

- Integrated **LLM auditors** into daily security workflows, promoting early and heavy use of AI-assisted auditing pipelines to expand depth of coverage and improve reasoning throughput.
- Contributed to **Hound**, a knowledge-graph-driven code analysis framework; with ongoing work on a complementary UX-driven code-mapping tool.
- Developing benchmarking frameworks for evaluating LLM auditors, including a grant proposal to evaluate model performance on historical Code4rena findings.
- **Identified 8+ confirmed vulnerabilities**, including **3 high-severity** (with **2 unique**) across public audits.
- **Achieved 4th place** in a competitive smart contract security tournament (Code4rena event).

Sports Arbitrage Bot — Founder & Engineer

2023 – 2024

- Built a high-frequency arbitrage system in Go with PostgreSQL and observability tooling.
- Implemented concurrent ingestion, rate limiting, and IP rotation.
- Achieved **10X performance improvement** via optimized lookup tables.

WEB3GEOGRAPHY (Solana Foundation Grant) — Founder & Full-Stack Developer

2022 – 2023

- Built and operated a Web3 labor-market analytics platform under a Solana Foundation grant.
- Designed ingestion pipelines aggregating **60k+ job listings** at peak.

STEEZYBEEZ (now Buzzkill NFT) — Co-Founder & Smart Contract Developer

2022 – 2023

- Designed gas-optimized NFT minting and marketplace contracts.
- Architected a production smart contract + backend + frontend system.

TOMOCHAIN (later Viction) — Board Member (Grants Governance)

2021 – 2022

- Voted on ecosystem grants and authored governance strategy analysis

STAKEHOLDER (DAO Governance Platform) — Founder & Lead Developer

2021 – 2022

- Built a DAO governance analytics platform with on-chain data pipelines.
- Won multiple **top-3 Gitcoin prizes** for governance tooling and proxy voting systems.
- Delivered a grant-funded frontend redesign for Aave governance.

Earlier Software Engineering Roles (Condensed)

2016 – 2021

- Frontend & full-stack engineer across startups and established product teams (React, Node.js).
- Built SaaS features, analytics pipelines, and CI/CD systems.

EDUCATION

CFA INSTITUTE — COMPLETED LEVEL II

Advanced quantitative methods, risk models, probability, and derivatives.

UNIVERSITY OF LEEDS — BSC PSYCHOLOGY

Statistics, research methodology, cognitive science, and experimental design.