

# JOHN WELLARD

## Full-Stack Blockchain Engineer & Smart Contract Security Auditor

Benoni, South Africa • Remote

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### // PROFESSIONAL SUMMARY

**Full-Stack Blockchain Engineer** and **Security Researcher** with deep expertise in building secure, scalable decentralized applications and auditing DeFi protocols. I architect entire on-chain systems that are attack-resistant and ready for institutional adoption, combining gas-optimized Solidity/Rust protocols with seamless React/Next.js frontends. My adversarial mindset is honed through competitive auditing on **Code4rena**, **Sherlock**, and **CodeHawks**. Currently advancing toward formal verification with Certora and pioneering the "2026 Stack"—incorporating **Autonomous AI Agents**, **Account Abstraction (ERC-4337)**, and **Zero-Knowledge proofs** into practical applications.

#### ▣ CORE STACK

Solidity

Rust

Foundry

Hardhat

React.js

Next.js

Ethers.js

Python

ZK Circuits

The Graph

### // CORE ENGINEERING & SECURITY EXPERIENCE

#### Full-Stack Blockchain Engineer | AgileGypsy

Jan 2026 - Present • Remote

- Engineering autonomous AI agents for DeFi protocol automation and intelligent trading systems
- Architecting institutional-grade RWA infrastructure using ERC-3643 standards with DID integrations
- Implementing ZK rollups and app-chain solutions for modular scaling
- Building gasless user journeys with Account Abstraction (ERC-4337) for next-generation UX
- Core Stack: Solidity, Rust, React, ZK Circuits, Python, AI Agents

#### Smart Contract Security Auditor | AgileGypsy / Independent

Feb 2025 - Present • Remote

- Conducting security assessments and formal verification for DeFi protocols
- Active on Code4rena, Sherlock, Immunefi, CodeHawks, and Cantina audit platforms
- Research focus: Reentrancy attacks, oracle manipulation, cross-chain bridge exploits
- Utilizing AI-enhanced fuzzing and invariant testing for comprehensive vulnerability detection
- Stack: Foundry, Slither, Echidna, Aderyn, Certora, AI Fuzzing

# Junior Smart Contract & AI Developer | AgileGypsy

Feb 2025 - Jan 2026 • Remote

- Led full-stack engineering initiatives at the intersection of AI Agents and RWA tokenization
- Built foundational skills in Solidity smart contract development and AI integration
- Developed and deployed production-ready smart contracts on Ethereum, Polygon, and BSC
- Created automated testing suites using Foundry and Hardhat

## // TECHNICAL SKILLS

### Blockchain & Smart Contracts:

Solidity, Rust (Solana), Yul/Assembly, Foundry, Hardhat, Ethers.js, Web3.js, DeFi Protocols (Uniswap V2/V3, Curve, Aave), ERC-20/721/1155/3643/4337/6551, zk-SNARKs, Cross-Chain Bridges, Account Abstraction, Formal Verification

### Security & Auditing:

Slither, Aderyn, Echidna, Medusa, Certora, Static Analysis, Fuzz Testing, Invariant Testing, Manual Code Review, Threat Modeling, Gas Optimization, MEV Analysis, Flash Loan Attack Vectors, Reentrancy Detection

### Full-Stack Development:

JavaScript, TypeScript, Python, React.js, Next.js, Node.js, Redux, GraphQL, REST APIs, IPFS, The Graph, PostgreSQL, MongoDB, Git, CI/CD Pipelines

### AI & Automation:

AI Agent Development, LLM Integration, Automated Trading Bots, ML-Enhanced Security Analysis, Python (NumPy, Pandas), Data Pipeline Architecture

## // AUDIT PLATFORMS

CodeHawks

Code4rena

Sherlock

Cantina

Immunefi

HackerOne

## // EDUCATION & CERTIFICATIONS

### Blockchain Education:

**Blockchain Development Bootcamp 3.0** • Dapp University • Jan 2026 - Jul 2026 (In Progress)

**Solidity Smart Contract Developer (SSCD+)** • Cyfrin Updraft • Feb 2025 - 2026 (In Progress)

**The Blockchain Bootcamp 2.0** • Dapp University • Jan 2025

### Formal Education:

BSc (Honours) Environmental Science • The Open University • 2022 - 2027 (In Progress)

### Completed Certifications:

- Chainlink Fundamentals (Jan 2026)
- Cyfrin Blockchain Basics, Foundry Fundamentals, Web3 Wallet Security (2025)
- Neo4j Certified Professional (Jan 2025)
- CompTIA Network+, A+ IT Technician, Microsoft MCP (2008)

## // PREVIOUS TECHNICAL EXPERIENCE

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### Network Engineer & Lead Web Developer | Computer Concepts

Jun 2004 - Dec 2010 • Kempton Park, South Africa

- Built 200+ responsive websites using HTML, CSS, JavaScript
- Maintained network infrastructures with 11% uptime improvement
- Managed web hosting deployments, DNS configuration, and domain registrations
- Stack: HTML/CSS, JavaScript, Network Security, DNS, Hosting

## // KEY ACHIEVEMENTS

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- **Security:** Active competitive auditor identifying vulnerabilities in DeFi protocols
- **Innovation:** Pioneering AI × Web3 convergence with autonomous agent development
- **Education:** Pursuing advanced Cyfrin SSCD+ certification for professional auditing
- **Open Source:** Contributing to decentralized protocol development on GitHub