Alexander Scherbatyuk | Smart Contract Engineer

▪ **Email** ▪ **GitHub** ▪ **LinkedIn** ▪ **Twitter** ▪ **Telegram** ▪ Remote (any time zone)

With a **15-year track record in software engineering** and **2 years of focused Blockchain development**, I excel in **smart contract security** and **production-grade protocol implementation**. My expertise encompasses building and securing DeFi applications, NFTs, stablecoins, rebase tokens, DAOs, and cross-chain interoperability solutions using Chainlink CCIP. I am a dedicated smart contract security researcher with a proven ability to detect critical vulnerabilities in competitive audit contests, leveraging advanced fuzzing and invariant testing while strictly adhering to best practices such as CEI/FREI-PI patterns, Checks-Effects-Interactions, and gas optimization.

Key Achievements

- Identified and reported 11+ High-severity vulnerabilities across multiple protocols in Cyfrin Codehawks First Flights audit contests, including Uniswap V4 hooks, vaults, marketplaces, and peer-to-peer trading systems.
- Developed cross-chain interoperability solutions integrating Chainlink CCIP, Data Feeds, VRF, Automation, and Functions, enabling seamless EVM-L2 and SUI interactions for DeFi and gaming protocols.
- Built and integrated secure smart contracts with DEXs (Uniswap, PancakeSwap, SushiSwap), lending protocols (Aave, Compound), and aggregation tools (1inch Intent Swaps/Fusion+ SDK), significantly reducing transaction costs and enhancing user experience.
- Engineered upgradable proxy contracts, ERC-20/721/1155/4626 standards with EIP-712, and advanced DeFi primitives, while setting up robust CI/CD pipelines using GitHub Actions, Docker, Nginx, and Linux environments.

Technical Skills

Programming Languages: Solidity (primary), Rust, Move, TypeScript, JavaScript, Node.js
Development: Foundry (Fuzz/Invariant), Hardhat, Ethers.js, Viem, Web3.js, OpenZeppelin, Chainlink, Next.js, React/React Native, NestJS, Express, GraphQL, Socket.io
Monitoring: GitHub Actions, The Graph
Security analysis: Manual review**,** Aderyn, Slither, Echidna, Medusa, LLM
DevOps: Linux, Docker, Nginx, PostgreSQL, MongoDB, Vercel, PM2, Git

Experience

ZkNoid (Web3 Gaming Startup) | Blockchain Full-Stack Developer | May 2025 – Present

- Developed Solidity smart contracts utilizing EIP-712, ERC-20/721/1155 standards for on-chain gaming mechanics.
- Integrated contracts with Uniswap/PancakeSwap DEXs, Aave/Compound lending, and full Chainlink suite (CCIP, Data Feeds, VRF, Automation, Functions) for cross-chain features.
- Built SUI Move-based contracts to enable interoperability with EVM ecosystems.
- Developed Nest.js/Node.js backends and Next.js frontends for EVM, SUI, and Mina on-chain games, including blockchain interaction extensions.

- Established CI/CD pipelines and multi-environment setups (dev/test/prod) using Linux, Docker, Nginx, PostgreSQL, MongoDB, GitHub Actions, and Vercel.

ChopChop (DeFi Startup) | Blockchain Full-Stack Developer | September 2024 – May 2025
- Engineered Solidity smart contracts for payment aggregation and gas optimization using EIP-712 and ERC standards, achieving significant transaction cost reductions.
- Integrated with DEXs (Uniswap, PancakeSwap, SushiSwap), Chainlink services, Aave/Compound, and 1inch Intent Swaps/Fusion+ SDKs for enhanced mobile app functionality.
- Developed backend APIs for blockchain interactions and improved cross-platform mobile architecture.
- Set up CI/CD for test/dev environments using Linux, Nginx, PostgreSQL, MongoDB, and GitHub Actions.

Siblion LLC | Senior Siebel Architect | December 2011 – September 2024
- Designed and optimized enterprise CRM integrations for banking, telecom, and manufacturing sectors using Siebel, Node.js microservices, REST APIs, Kafka, and RabbitMQ.
- Led teams of up to 10 developers, delivering scalable infrastructure and on-time projects.
- Configured environments with Oracle Linux/Database, CentOS, Nginx, PostgreSQL, and Docker.

Projects
Cross-chain trade platform for bundled Crypto Assets | Solidity, TypeScript | June 2025
- Online platform that enables cross-chain trade of bundled native and ERC20 assets
- Smart Contracts with Solidity, Foundry and Chainlink CCIP and Price Feeds
- Front-end with NextJS, TypeScript, TheGraph, Wagmi, Viem

Awards
- Vlayer 2nd place award | ETHGlobal Bangkok | November 2024
- 1inch 1st place award | ETHGlobal Singapore | September 2024

Competitive Audits
Cyfrin Codehawks First Flights | 2025
- Total Findings: 22 (10 High, 8 Medium, 4 Low) across protocols including RebateFi Hook (Uniswap V4), BriVault, Raisebox Faucet, Bid Beasts (Auction Marketplace), Secret Vault (Aptos Move), OrderBook (P2P Trading), and others.
- Specialized in identifying critical issues in DeFi vaults, hooks, faucets, games, and marketplaces on EVM and non-EVM chains.

Hackathons
ETHGlobal Unite DeFi | July 2025
- Built EVM escrow factory and atomic swap contracts with SUI mirroring; integrated 1inch SDK into Next.js dApp for cross-chain functionality.

Chainlink Chromion Hackathon | June 2025
- Developed cross-chain NFT marketplace using Chainlink CCIP and Price Feeds; built bidirectional tokenized assets and Next.js dApp with The Graph integration.

ETHGlobal Bangkok | November 2024
• Created low-code Web3 automation platform with Next.js, NestJS, Solidity, Rust, and zero-knowledge proofs – Won 2nd place in Vlayer award.

ETHGlobal Singapore | September 2024
• Built cross-chain group collaboration and bill-splitting app with React Native and Solidity – Won 1st place in 1inch award, 2nd in Reown award.

ETHGlobal Remote | August 2024
• Developed on-chain dog identity database with vaccination tracking using Solidity and Next.js – Nominated for Envio and Morph awards.

Education

Professional Qualifications and Certifications
• Smart Contract Security| January 2026
• Rust Programming Basics – Cyfrin Updraft | November 2025
• Uniswap V4 – Cyfrin Updraft | October 2025
• Uniswap V2 – Cyfrin Updraft | October 2025
• Advanced Web3 Wallet Security – Cyfrin Updraft | September 2025
• Advanced Foundry – Cyfrin Updraft | September 2025
• Solidity Smart Contract Development – Cyfrin Updraft | April 2025
• Chainlink Fundamentals Certification – Chainlink Labs | April 2025
• Blockchain Fundamentals Certification – Chainlink Labs | April 2025 (Expires April 2026)

Academic Education
• Bachelor's in Computer Science. Moscow Institute of Electronics and Mathematics (Technical University), Moscow, Russia | Graduated 2010

Publications & Research
• The Hidden Superpower of memory storage location That Every Solidity Dev Misses
• Yes, You DO Need a Reentrancy Guard on ERC20 Transfers. No, It's Not Insane
(Medium: @AlexScherbatyuk)

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