Dawid Pisarczyk

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Summary

Ethereum developer with hands-on experience building smart contracts, dApps, and full-stack Web3 systems. Designed autonomous on-chain agent frameworks and developed X402-enabled MCP tools. Experienced in REST APIs, web applications, and deploying on Cloudflare and Vercel.

Work Experience

Engineering Intern – 0em Labs June 2025 – September 2025

- Built usage-based LLM payment systems with Privy-backed per-call billing, improving accessibility for developers and end users.
- Developed custom ERC4337 smart contract wallets and wallet-less onboarding flows, simplifying Web3 UX for non-technical audiences.
- Created a custodial wallet SDK with delegated transaction execution and on-chain rate limits for agents.
- Implemented X402 monetization for MCP providers and deployed high-availability infrastructure on Cloudflare Workers.

Co-Founder – Lyneth April 2025 – Present

- Building trust infrastructure for agentic economies—decentralized systems that enable verifiable trust when agents replace intermediaries, funded by a $20,000 grant from Venice AI.
- Developing infrastructure on top of ERC-8004 registries for identity, reputation, and validation, analyzing feedback history, owner wallet patterns, and interaction quality to surface meaningful reputation signals.
- Building comprehensive protection mechanisms: sybil resistance through wallet clustering and behavior analysis, griefing protection by detecting coordinated attacks, and validation systems that cross-reference multiple trust signals.
- Working with early partners across DeFi and agent infrastructure to enable verifiable trust at scale, allowing agents to operate independently in open networks without requiring blind faith.

Projects

- **Agent0** – Semantic search service for ERC-8004 agents using Subgraph, Cloudflare Workers, Venice AI embeddings, and Pinecone. Contributed semantic search integration to the SDK with multi-chain support.
- **CompassDAO** – Semantic search engine for ERC-8004 agents using vector embeddings of agents in identity registry, DAO economically incentivising high quality feedback, trust rating based on feedback registry, and x402-enabled semantic search MCP. *Prize: Arbitrum Foundation Bounty – Encode London 2025*
- **CodeGene** – Agent for smart contract auditing and pentesting inside VS Code, including LLM-generated pentests and NFT-backed insurance certificates. *Prize: Nethermind "Create your Agentic Future" Bounty – Encode London 2025*
- **XRPLendNet** – NFT-collateralized lending protocol on XRPL EVM, enabling transferable and divisible loan positions, with support for pooling multiple loans into bond-like instruments that can be fractionally traded. *Prize: Technical Track Finalist – EasyA XRP London 2024*
- **AssetXChange** – RWA tokenization platform on Etherlink L2 for accessible on-chain asset issuance and management. *Prize: Mainline Track Winner – ETH Oxford 2024*

Skills

- Web & App Development: React, React Native/Expo, Next.js, TailwindCSS, REST APIs, Hono.js, Express.js
- Blockchain & Protocols: Solidity, Hardhat, Foundry, Subgraph, ERC8004, EIP-7702, Thirdweb, CDP, web3.js, Privy, ethers.js, IPFS, X402
- Programming & Tools: TypeScript, JavaScript, Python, Java, C#, Haskell, SQL; Git/GitHub, Vercel, Cloudflare, vector search (Pinecone), MCP, A2A

Education

September 2023 - July 2026 BEng Comp Sci with Cyber Security at **University of Southampton**
September 2021 - July 2023 A Levels at **Bournemouth School** (AAAB)

Extracurriculars and Interests

Contributing to the Agent0 ERC8004 sdk, President of Decentralised Society at Southampton University, Active hackathon participant, cybersecurity and DeFi enthusiast, basketball player, snowboarder