

Joseph Chen

Web3 / Solidity / Full-Stack JavaScript Engineer

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SUMMARY

Independent Web3 developer focused on smart-contract security, AI-assisted contract review, and the React dApps that consume them. I ship end-to-end: Solidity analysis tooling, multi-LLM vulnerability triage pipelines on Ethereum and Arbitrum, and clean React/Next.js frontends wired up with ethers.js / wagmi / RainbowKit. Live product in market today: SecureFlow. Comfortable owning the full stack from SafeERC20 imports to CDN deploys. Available for full-time, contract, or freelance — Web3, security, or general React/JS roles.

CORE SKILLS

Smart Contracts Solidity 0.8.x · Hardhat · Foundry · OpenZeppelin (UUPS upgradeable) · Chainlink VRF & Automation · ERC-20 / 721 / 1155

DeFi Primitives AMMs · staking · yield · lottery mechanics · memecoin launch design · pull-payment patterns · front-running mitigation

Frontend React · Next.js 15 (App Router) · TypeScript · Tailwind · ethers.js · wagmi · viem · WalletConnect · RainbowKit

Security & Tooling Slither · Mythril · Echidna · Foundry fuzzing · AI-assisted contract review · BscScan / Etherscan verification

Infra Node.js · Python · SQLite / Postgres · Linux VPS · Hostinger / Contabo · Cloudflare · GitHub Actions

SELECTED PROJECTS

SecureFlow — AI Smart Contract Scanner + Security Questionnaire SaaS

Solo founder & engineer · secureflow.tech · Python, Slither, GPT-4, Claude, SQLite, Flask dashboard

- Continuously monitors **Ethereum and Arbitrum** for newly deployed contracts and runs them through a multi-layer AI pipeline.
- Combines **Slither static analysis** with **LLM reasoning (GPT-4 / Claude)** to surface 15+ vulnerability classes: reentrancy, access control, oracle manipulation, unchecked external calls.
- Same engine powers a **B2B mode** that auto-answers vendor security questionnaires from an enterprise's own docs, with citations — replacing 20+ hours of manual work per questionnaire.
- Production dashboard, scheduled scans, alerting, and report generation.

Open-Source Solidity Reference Contracts — Foundry + OpenZeppelin v5

Solidity 0.8.24 · Foundry · OpenZeppelin v5 · 256-run fuzzing

A four-contract reference suite covering the canonical primitives of a token launch — token, staking, airdrop, vesting. Each repo ships with a Foundry test suite (property fuzzing) and a README documenting design trade-offs and intentional omissions.

- **MeowCoin** (github.com/SelfLearnedDev2027/meowcoin) — ERC-20 with trading gate, anti-whale limits, configurable tax-on-transfer; single `_update` hook design.
- **CatnipFarm** (github.com/SelfLearnedDev2027/catnipfarm) — Single-pool staking with O(1) per-share reward accumulator (Synthetix pattern); 256-run conservation-invariant fuzz.
- **PawClaim** (github.com/SelfLearnedDev2027/pawclaim) — Merkle-tree airdrop; immutable claim deadline; in-test in-memory Merkle tree builder for end-to-end proof verification.
- **CatVesting** (github.com/SelfLearnedDev2027/catvesting) — Linear vesting with cliff and optional revoke; snapshots `vestedAmount()` on revoke to prevent the curve-drift bug; 256-run monotonicity fuzz.

Portfolio Site — josephchendev.com

- Hand-built static site, optimized for Core Web Vitals and SEO (JSON-LD Person + ProfessionalService schema, Open Graph, Twitter Cards, sitemap, robots, manifest).
- Strict Content Security Policy, HSTS preload, SPF/DMARC reject-all on the domain (defense against email spoofing).
- Lighthouse 95+ across categories; full a11y pass (skip-link, focus rings, prefers-reduced-motion).

WHAT I BRING TO A TEAM

- **Ship quality on a small team (or solo).** Both my live products are end-to-end my work — contracts, frontend, infra, ops.
- **Security-first mindset.** Reading post-mortems on DeFiHackLabs is part of my weekly routine; I turn real exploits into pre-deploy checklists.
- **Cross-stack fluency.** Equally comfortable in a Solidity reentrancy guard or a React `useEffect` cleanup.
- **Independent and remote-async by default.** Self-managed, written communicator, comfortable with PR-driven workflows.

AVAILABILITY & PREFERENCES

- **Open to:** Full-time · Contract · Freelance · Advisory
- **Remote-first,** US-based
- **Roles of interest:** Smart Contract Engineer · Solidity Developer · Web3 Full-Stack · DeFi Protocol Engineer · React / Next.js Engineer · Frontend Engineer

References, code samples, and audit reports available on request.