Noa Halperin Junior Smart Contract Developer

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PROFILE SUMMARY

- **Junior Smart Contract Developer** with **2 years** writing **Solidity token contracts** for **a digital asset infrastructure company**, after **2 years of Java and Go backend work** on payouts.
- Builds with **Solidity 0.8** and **Foundry**, **OpenZeppelin Contracts Upgradeable**, **Slither** for static checks and **viem** scripts for deploys on **Ethereum, Polygon PoS and Base**.
- Strong in **role-based access control**, **allowlist and freeze logic** for regulated tokens and **fuzz testing**, and writes the attack test before the fix on every reported issue.
- Works with **2 senior contract engineers**, **the security research team** and **solution engineers** who help banks and fintechs launch their tokens.
- Keeps the team's **Foundry test template** current and runs a monthly **exploit post-mortem reading group** for engineers new to Solidity.

TECHNICAL SKILLS

Contract Languages:	Solidity, Yul (reading), TypeScript, Java, Go
Frameworks & Libraries:	Foundry, OpenZeppelin Contracts Upgradeable, Hardhat, viem
Security & Static Analysis:	Slither, Aderyn, checks-effects-interactions, threat modeling (basics)
Fuzzing & Formal Tools:	Foundry fuzz and invariant tests, SMTChecker, Echidna (basics)
Token & Proxy Standards:	ERC-20, ERC-721, ERC-1155, UUPS proxies, EIP-712, ERC-2612
Chains & L2 Networks:	Ethereum, Polygon PoS, Base, Sepolia testnet
Ops, Oracles & Monitoring:	Safe multisig, Tenderly alerts, Etherscan verification

EDUCATION

Tel Aviv University — **B.Sc. in Computer Science** — Tel Aviv, Israel · Oct 2018 to Jul 2022

WORK EXPERIENCE

Fireblocks — **Smart Contract Engineer** — Tel Aviv, Israel · Sep 2024 to Present

- Wrote **ERC-20** and **ERC-1155** token contracts with allowlist, freeze and forced-transfer controls for regulated issuers, now running **11 customer tokens** on Ethereum and Polygon PoS.
- Closed **12 of 13 findings** from an external audit of the token library, including a medium-severity missing role check, each with a regression test written before the fix.
- Added **Foundry** fuzz and invariant tests on supply and allowlist rules, plus **SMTChecker** runs on the mint math, raising branch coverage on the token library from 78% to **95%**.
- Cut gas per recipient on batch mint from 61,000 to **38,000** by packing allowlist flags into a bitmap and swapping revert strings for custom errors.
- Shipped **9 UUPS upgrades** to live customer tokens on Ethereum, Polygon PoS and Base, with storage layout checks, **Safe** multisig signing and **Tenderly** alerts on role changes.

Payoneer — **Backend Developer** — Petah Tikva, Israel · Aug 2022 to Aug 2024

- Built **Java** and **Spring Boot** services for payout reconciliation, matching **2M transactions a day** against bank files.
- Cut duplicate payout incidents from 9 a quarter to **1** by adding idempotency keys and a ledger consistency check to the payout API.
- Entered **Code4rena** audit contests in spare time and had **2 medium-severity findings** accepted, which led to the move into Solidity full time.