

Zain Dana Harper

Systems Engineer | AI Evaluation, Developer Tools, and Technical Operations

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SUMMARY

Systems engineer building evaluation environments, developer tools, and accountable agent infrastructure. Ships public code, tests, documentation, and reproducible evidence across Python, Rust, TypeScript, and Flutter. Brings production support experience and a record of focused upstream contributions.

SKILLS

Python; Rust; TypeScript; Flutter/Dart; test design; deterministic fixtures; AI evaluation; agent tooling; CLI and MCP surfaces; developer documentation; Git and GitHub; CI; release evidence; technical troubleshooting

EXPERIENCE

Independent Systems Engineer | Zentropy Labs | Seattle / Remote | 2023-present

- Built and maintain Flywheel, a public Python and Flutter platform for model routing, verification, gated actions, and offline-recheckable, chain-linked tool-call receipts.
- Built Terminal State Fixtures: an exhaustive 324-record MLflow evaluation environment and a 337-case component-forge environment with about 5,000 frozen probe comparisons.
- Built BuildLang, a systems-language toolchain with typed capability effects, a production C backend, two-way C FFI, shader output, a bundled CLI and LSP, and re-checkable build receipts.
- Landed 31 engineering pull requests across 26 third-party repositories as of August 25, 2026, spanning bug fixes, tests, performance work, documentation, replay fixtures, and developer tooling.
- Released Elder ENB, which recorded 936,657 downloads and 160,939 unique downloaders on NexusMods as of August 14, 2026.

Freelance Technical Writer and Documentation / Product Operations | Remote | 2017-present

- Produce implementation guides, operating instructions, proposals, release notes, support material, and security or compliance documentation for technical and nontechnical audiences.
- Turn complex source material into usable procedures, review checklists, and explicit claim boundaries.

Technical Networking Support, Xbox Division | Microsoft | Redmond, Washington | 2013-2014

- Diagnosed TCP/IP, DNS, NAT, firewall, router, and console account-adjacent issues through phone and chat support.
- Documented repeatable resolutions and translated technical fixes into clear, step-by-step guidance.

EDUCATION

High School Diploma | Wilsonville High School | 2013