zoa@zoa.sh:~$ curl zoa.sh/about

ZOA HICKENLOOPER

network & software & linux & ai engineer · low-level systems

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zoa.sh · vxfemboy
vxfemboy · AS214806

$ whoami

Systems and software engineer bridging carrier-grade networking (founder/operator of AS214806), high-throughput distributed systems in Rust and Go, autonomous AI agent runtimes, and offensive security. Proven track record designing fault-tolerant anycast infrastructure, enterprise breach-and-attack simulation engines, and cited RAG pipelines. Day-to-day I write Rust, Go, Python, and TypeScript from bare-metal edge nodes up to distributed application runtimes.

// i run BGP in production and think about it in the shower. the routing tables are beautiful.

$ cat skills.txt

languages	Rust · Go · C/C++ · Python · TypeScript · JavaScript · WebAssembly · Bash · SQL
systems / infra	Linux systems & low-level architecture · eBPF & XDP · ZFS storage pools · KVM & Incus containers · bare-metal Dell/Supermicro · Docker
networking	BGP (BIRD/OpenBGPd) · Anycast traffic engineering & edge POPs · OSPF & BFD sub-second failover · WireGuard & GRE · Knot DNS · TCP/IP socket tuning
backend / dist	Tokio async actor pipelines · Actix-web · PostgreSQL (streaming physical WAL replication & failover) · Redis caching/auth · Lock-free concurrency & MPSC messaging
agents / ai	Autonomous multi-agent harnesses · MCP servers · Agentic RAG (hybrid BM25/semantic) · Claude Code skills & plugins · LLM fine-tuning (LoRA, evals)
security / crypto	Offensive security & pentesting · Breach & attack simulation · Monero (XMR) RPC daemon failovers · secp256k1 & AES-GCM steganography · SOPS & age
cloud / devops	Caddy reverse proxies · Ansible & Terraform IaC · GitHub Actions CI/CD · MinIO S3 · AWS · Prometheus observability

$ git log --oneline experience/

├─ Founder & Chief Technology Officer — 2024 – present

FCN LLC · Autonomous System AS214806

- Architected a multi-homed BGP anycast network across edge POPs using BIRD, BFD sub-second failover, and WireGuard/GRE; maintained 99.999% availability and cut transit latency by 32%.
- Engineered high-throughput proxy routing engines and network translation daemons in Rust/Tokio, processing millions of concurrent packet streams with zero-copy buffer pooling.
- Designed and shipped autonomous LLM agent execution harnesses (kibble, collar) featuring permission-gated tool loops, MCP server interfaces, and hybrid BM25/vector cited RAG.

├─ Full-Stack & Security Software Engineer — 2023 – 2024

OccamSec

- Engineered core components of InCenter, an enterprise breach-and-attack simulation platform covering web, network, and cloud security testing for Fortune 500 clients.
- Built automated vulnerability correlation and ML-assisted validation pipelines (+40% detection accuracy, -30% false positives); automated AWS deployments via Terraform/Ansible.

├─ Network Software Engineer — 2022 – 2023

IPRoyal

- Built distributed connection pooling and dynamic load balancing across high-throughput proxy infrastructure serving 10M+ daily requests, with automated monitoring and failover.

├─ Embedded Linux Engineer — 2021 – 2022

Filmtek Cloud
· Shipped custom embedded Linux / OpenWRT firmware (RK3399) and in-house VPN infrastructure; ran internal & external penetration testing and vulnerability remediation.

└ earlier 2019 — 2021
IT Engineer, Goldman Sachs (UNIX/Linux, Citrix/VMware) · Server Engineer, AWS / Foxconn (data-center buildout + Python automation)

$ ls projects/ — selected open source

yip — invisible low-latency P2P mesh VPN in Rust; Reed-Solomon FEC loss-recovery, DPI-silent obfuscation (nDPI-proven), NAT hole-punching. github.com/femboyisp/yip

kibble — Rust knowledge/data platform; agentic cited RAG, hybrid BM25+semantic search, MCP server, SSRF-guarded ingestion. github.com/femboyisp/kibble

collar — Rust TUI harness for a coding agent; permission-gated tool loop, multi-provider streaming (Anthropic / OpenAI-compatible). github.com/femboyisp/collar

purroute — auto-detecting proxy router/gateway in Rust; sniffs SOCKS4/5 · HTTP(S) inbound, translates + multi-hop chains upstreams with tag-based exit selection and per-user auth/bandwidth. github.com/femboyisp/purroute

ghostport — firewall & traffic-manipulation framework for security research and pentesting; custom packet crafting + protocol analysis. github.com/vxfemboy/ghostport

socks.cat — privacy-first residential proxy service; zero-JS SSR frontend + JSON API, Monero payments, anonymous token accounts, reseller API. github.com/femboyisp/socks.cat-web

purrcrypt — secp256k1 + AES-256-GCM crypto tool with steganographic encoding (ECDH key exchange) for plausible deniability. github.com/vxfemboy/purrcrypt

$ cat education.txt

Salt Lake Community College — Network Engineering 2023 — 2025
Canyons Technical Education Center — Computer Engineering Program 2016 — 2018