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Professional Summary

Polyglot blockchain architect who translates frontier cryptography—zero-knowledge proofs, lattice and post-quantum primitives, MPC/TEE security—into production software. Eight years designing custody frameworks, Bitcoin-L2 roll-ups, and developer tooling adopted by thousands. Led teams as CTO, R&D engineer, and Head of DevRel, winning seven global hackathons (ETHDenver, ETHGlobal SF, Polygon zk, Ledger, Aleo). Signature: Rust-centric micro-services, airtight DevSecOps, and developer-first documentation.

Key Achievements

- Invented **POEMS** ZK-TEE multisig protocol (\$50k Aleo grant) and **Rosario-Wang Proof**, a human-verifiable lattice ZKP.
- Launched **GOAT Network** Bitcoin-based Layer-2, onboarding 100+ Ethereum dApps and 3 000 developers in 6 months.
- Built MPC & SGX custody stack and wallet-framework prototypes for Chaotic Beauty LLC.
- Swept seven Tier-1 web3 hackathons, including ETHDenver “Hacker Deathmatch” 2024.

Technical Skills

- **Languages** – Rust, Solidity, Python, TypeScript/JavaScript, Go, Java, C++, Bash, SQL
- **Frameworks & Runtime** – Actix-web, FastAPI, Deno Fresh, Node.js, Bun, React/Next.js, Remix, gRPC, GORM, Tailwind CSS, Hardhat, Foundry, Truffle
- **Blockchain & Crypto** – Ethereum / EVM, Bitcoin L2 (BitVM2), Cosmos SDK, Substrate, Aleo (Leo), Circom/SnarkJS, Plonky3, MPC (FROST), TEEs (SGX/TDX via Fortanix), PQC (Kyber, Dilithium), BLAKE3, BIP-39 HD
- **DevOps & Cloud** – Docker & Compose, Kubernetes / AKS, AWS (Lambda, EC2), Azure (Service Bus, Key Vault, Defender), IBM Cloud TDX, GitHub Actions, Terraform (+ Cloud), NGINX (+ Let’s Encrypt)
- **Data & Messaging** – PostgreSQL, Redis, Supabase, IPFS, Kafka, Azure Service Bus, Anycast DNS, GraphQL / The Graph
- **Security & Testing** – Entropy / avalanche tests, side-channel guards, AFL/cargo-fuzz, JWT, RBAC, Prometheus + Grafana, NGINX WAF, KSM (FIDO)

Professional Experience

Chief Cybersecurity Solutions Officer *Chaotic Beauty LLC* Nov 2020 – Present

- Architected a polyglot micro-services stack: Deno/Fresh UI, Rust API (Actix), Go ORM, FastAPI AI workers; services communicate via gRPC + Azure Service Bus on a private VNet.
- Authored Terraform modules for one-command infra: VNets, VM Scale Sets, PostgreSQL, Service Bus, Key Vault, API Management.
- Implemented GitHub Actions CI/CD, multi-stage Dockerfiles, and zero-downtime blue/green redeloys; AKS migration in progress.
- Secured stack with Let’s Encrypt TLS, JWT, RBAC, Azure Defender, Log Analytics.

Head of Developer Relations *GOAT Network* Jul 2024 – Jan 2025

- Drove Bitcoin-L2 launch (**BTCfi**); wrote SDK + docs and grew community to 3 000 developers.
- Closed integrations (Chainlink, Aori, The Graph, Ormi) lifting TVL from \$25 M to \$90 M.

R&D Engineer *Osmosis Foundation* Apr 2024 – Sep 2024

- Built **DEFE CLI** for IPFS front-ends with SGX/TDX pinning; achieved 99.99% uptime via anycast DNS (Azure, IBM Z, Cloudflare).

Blockchain Cybernetic Researcher *ENI6MA Cybersecurity LLC* Apr 2024 – Apr 2025

- Co-designed **Rosario-Wang Proof**; authored lattice-ZKP white-paper and reference Rust implementation.

CTO & Principal Engineer *Invo Technologies Inc.* Apr 2023 – Jan 2025

- Shipped Substrate-based **Invo DEX** bridging \$7M in cross-game assets; delivered AI churn-analytics to five studios.

Tech Evangelist (USA) *BNB Chain Labs* Nov 2022 – May 2023

- Hosted “Bread N’ Butter” podcast; mentored 1 200+ devs in zkBNB storage workshops; ETHDenver judge.

Head of Developer Relations

Discreet Labs

May 2022 – Oct 2022

- Grew Findora zkEVM PoC dApps 5× through global hackathons and docs.

Developer Captain

Harmony

Jun 2021 – May 2022

- Ran weekly workshops (curriculum); managed Harmony Dev DAO.

Open-Source Contributions

- **POEMS Protocol** – ZK-TEE multisig (\$50k Aleo grant)
- **BNB Greenfield React SDK** – Blockchain DB adapter
- **DEFE Library** – Rust IPFS/ENS front-end kit
- **Polyhedra Storage** – Optimised Greenfield backend
- **Findora ZK Audit** – Plonky3 EVM tests

Notable Projects

- **Rosario-Wang Proof** – Lattice-ZKP auth (Eni6ma / Coin.fi)
- **Invo Technologies – Game-to-Game Currency Protocol**
 - Invo SDK – Substrate DEX using Aleo ZKP
 - B3ZrK – Rust off-chain exchange (PO-EMS + BLAKE3)
- **Invo AI** – On-chain analytics agent; acquired by Amazon Prime Games
- **Invo sp-core Wallet** – Rust BIP-39/AES-GCM key manager
- **AIMBC Bridge** – Trustless atomic cross-chain swaps
- **Opseeq.com** – DuckDB/Snowflake data engine with ABDC API

Awards & Achievements

- Winner – AOS *Hacker Deathmatch* (ETHDenver 2024)
- Winner – ETHGlobal SF 2024 *ZendIt!*
 - Ledger Tech Award (1st)
 - Polygon zk App Challenge (1st)
- 2nd – VeChain × EasyA Hackathon 2024 *PowerUp*
- Winner – Aleo Best Tech Award 2023 (*POEMS*)
- Winner – ETHAmsterdam 2022 (*DegenBox*)
- Best Partner – KCACTF 2018 (Theatre)

Education & Certifications

Professional Qualifications

- Blockchain Engineering Fellow – RareSkills (May 2023) — 11-week selective Web3 cohort
- Certified Ethereum Developer – Blockchain Training Alliance (Mar 2022)

Academic Education

- B.S. Computer Science – Western Governors University (2020–2021)
- A.A.S. Computer Programming – MiraCosta College (2019–2020)
- A.A. Drama & Theatre Arts – MiraCosta College (2017–2018)

Publications & Presentations

Articles & Docs

- “Churn Monetization is the Future of GameFi” — *Medium*
- Coin.fi research papers (contributor)
- Eni6ma Rosario-Wang Proof documentation
- GOAT Network docs
- Aleo Developer Enablement Strategy

Featured Talks

- Crypto Coin Show (GOAT)
- Staking Summit (GOAT)
- Defiant Podcast (GOAT)
- House of ZK (ZKM)
- ETHDenver ZK Workshop
- Bread N’ Butter Podcast (BNB Chain)
- Decentralised Front Ends (Osmosis)