Logan Biesterfeldt

Forward Deployed Engineer · AI Software & Embedded Domain Systems

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SUMMARY

Forward Deployed Builder combining embedded domain immersion, full-stack TypeScript/Postgres engineering, and spec-driven AI agent orchestration. Turned two years of hands-on farm telemetry operations (Flat Land Farms) into AgOS (React 19, Three.js, Drizzle, Neon Postgres), shipped multi-agent AI pipelines (CrAIdle, Satsuma) with strict verification gates, and owned customer-facing production systems to $300M+ TVL.

EXPERIENCE

AgOS (Independent Platform) — Founder & Forward Deployed Engineer — Calgary, AB · May 2026 – Present

Direct synthesis of two years operating precision ag consoles into relational & 3D software (ag-os.pro)

- **Embedded Constraint Mapping → Schema:** Modeled physical round bins, hopper tanks, blend splits, delivery contracts, and accrual P&L directly into a multi-tenant **Neon PostgreSQL + Drizzle ORM + Auth.js** architecture.
- Delivered unified spatial twins (**Three.js**), route logistics (**Leaflet**), financial Sankeys (**Nivo/Recharts**), and an isolated interactive guest demo mode so stakeholders can test workflows live without touching production tenant data.

CrAIdle & Satsuma — Agentic AI Systems Architect (Spec-Driven) — Hackathons (Synthesis / Cosmoverse) · 2024 – 2026

- **CrAIdle (Synthesis Hackathon 2026):** Defined strict smart contract invariants locking investor principal inside a vault while streaming Lido stETH yield dynamically to AI compute budgets; directed **OpenClaw + MiniMax** coding agents paired with Solidity compiler & Base Sepolia verification to deploy 4 contracts + live Next.js monitor.
- **Satsuma (Cosmoverse 48h Ship):** Authored cross-chain state transition specs across Injective, Astroport, Axelar GMP, and ICP canisters, orchestrating AI implementation loops with human-in-the-loop Keplr/ICP wallet QA.

Cryptech Developments Ltd. — Frontend Lead & Customer-Facing Engineer — Vancouver, BC (Remote) · Aug 2022 – May 2026

- Owned live user-facing frontend systems and Figma architecture for **Neptune Finance ($300M+ peak TVL)**—rapidly triaging real user feedback into shipped recovery UX, optimistic RPC/indexer sync, and unbriefed workflow wins like the multi-page **Balance Menu**.
- Deployed ecosystem tooling for external partner/community adoption: ported **CW3 Multisig** to Injective with payload decoding and merged adapters in **Injective Labs**, **Cosmos**, **Keplr**, and **DefiLlama**.

Flat Land Farms Inc. — Precision Ag Operator (Field Discovery) — Alberta, Canada · Sep 2017 – Oct 2019

- Operated GPS-guided combines, seeders, and telemetry dashboards (**John Deere Operations Center**, **Climate FieldView**, **Greenstar 2630/4640**); audited field-to-bin data fragmentation and contracting pain points directly from the operator seat.

stakefish / f2pool & Artrageous — Protocol Education & Client Web Systems — Remote / Calgary, AB · Dec 2019 – Aug 2022

- Translated validator/PoS network procedures (Ethereum Merge, Cosmos, Solana) into unambiguous customer onboarding flows; managed 80+ client WordPress sites & Google Data Studio attribution pipelines with tight client turnaround.

CORE FDE DIFFERENTIATORS

Dyve (ETHGlobal HackFS 2022 Triple Winner) *(Polygon Top 5 · Covalent · NFTPort)*: Rapidly scoped and shipped a trustless P2P NFT lending/shorting platform under hackathon constraints integrating smart contracts, Covalent/NFTPort indexers, and IPFS.

AI Engineering Methodology: Pair Claude Code, Cursor, OpenClaw, and MiniMax with typed schemas, contract invariants, automated lint/type gates, and operator workflow validation so AI speed translates into trustworthy production delivery.

TECHNICAL & DOMAIN SKILLS

AI & Agentic Systems: OpenClaw, MiniMax, Claude Code, Cursor, Spec-Driven Codegen, Human-in-the-Loop Verification, Rapid Customer Prototyping

Full-Stack & Data: React 19, TypeScript, Next.js, Node.js, PostgreSQL (Neon), Drizzle ORM, Auth.js, REST/RPC Indexers, WebSockets

Spatial & Interface Craft: Figma Systems, Tailwind CSS, Three.js / WebGL, Leaflet, Recharts, Nivo, High-Contrast Accessible Operational UI

Protocols & Infrastructure: CosmWasm, Injective SDK, Solidity, Ethers.js, EVM / Base, Keplr/MetaMask Signing, Git, Vercel CI/CD

EDUCATION

The University of Lethbridge — Bachelor of Fine Arts (BFA), New Media — Lethbridge, AB · Graduated 2014