

# William Sheldon White

## FORWARD DEPLOYED ENGINEER

Jacksonville, FL · 904.362.1624 · [Sheldonwhite888@gmail.com](mailto:Sheldonwhite888@gmail.com) · [linkedin.com/in/william-white](https://linkedin.com/in/william-white) · [github.com/sheldon904](https://github.com/sheldon904)

## SUMMARY

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Forward Deployed Engineer and co-founder of an embedded-engineering firm, deploying and adapting multi-agent AI systems inside live customer environments. I've shipped a production multi-agent autonomy platform wired into a customer's operational stack and an operations platform that runs daily at a 30-person contractor, including on-prem deployments where open models run on hardware the customer owns. I move quickly across backend, infrastructure, and the model layer (Docker, Postgres, RDF/SPARQL, Claude and self-hosted open-weight models via vLLM/MCP), and I do the distributed-systems debugging that keeps it running in production.

## TECHNICAL SKILLS

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**Languages:** TypeScript, Python, JavaScript, SQL, C#, C++, PHP

**AI & Agents:** Multi-agent orchestration, Model Context Protocol (MCP), LLM tool-use, RAG / retrieval pipelines, pgvector embeddings, prompt engineering & caching, agent evaluation harnesses, human-in-the-loop, Claude (Opus/Sonnet/Haiku), self-hosted open-weight models via OpenAI-compatible backends (vLLM, LM Studio, Together, Groq), DoWhy/PyMC causal inference

**Backend:** FastAPI, Fastify, Express, Hono, Next.js API routes, REST, SSE streaming, Prisma, SQLAlchemy

**Data:** PostgreSQL, pgvector, RDF / SPARQL (TrustGraph, Oxigraph), Qdrant, Redis, MySQL, Neon

**Infra & DevOps:** Docker, Docker Compose, Vercel, AWS S3, Cassandra, Pulsar, Linux, cron orchestration, network isolation, Prometheus, Pino structured logging, CI

**Frontend:** React, Next.js (App Router), Tailwind CSS

**Practices:** Distributed-systems debugging, observability & audit logging, deployment reliability, RBAC / auth, on-call support, customer scoping & delivery

## EXPERIENCE

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### BayWest Labs | Co-Founder

Mar 2026 – Present · Jacksonville, FL

- Co-founded an embedded-engineering and managed-services firm that places forward-deployed engineers and AI operations systems inside mid-market operators (construction, logistics, real estate, trades).
- Stood up an on-prem "sovereign AI" offering: open-source models running on hardware the customer owns, an MCP gateway for typed tool use and writeback, and a graph + vector store, so no operational data leaves the customer's network.
- Run embedded delivery end to end: engineers embed on-site and ship working software weekly, then hand off the full codebase, runbooks, and docs; across engagements, roughly 14-day median time to first build and zero systems abandoned post-handoff.

### BayWest Digital (Contract) | Forward Deployed Engineer

Oct 2025 – Present · Remote

- Own end-to-end customer delivery as the embedded engineer: discovery, scoping, architecture, deployment, and on-call support, iterating with stakeholders in weekly cycles.

### Little Bear Foundry: Multi-Agent Autonomy Platform (*flagship*)

- Built a federation of nine role-specialized agents plus a 22-tool operational agent that runs next to a customer's live operations system to score invoices, flag discrepancies between field forms and source data, and recommend crew, equipment, and schedule decisions.
- Integrated their data and tooling into agent workflows over Model Context Protocol (MCP): Postgres SQL, an RDF/SPARQL knowledge graph (TrustGraph / Oxigraph), a DoWhy/PyMC causal-inference sidecar, and external feeds (weather, permits, parcel data).
- Built a model-agnostic inference layer that runs on Claude or self-hosted open-weight models via OpenAI-compatible backends (vLLM, LM Studio); orchestrated 13 services with Docker Compose under local-only network isolation, so it deploys on-prem or air-gapped.

- Instrumented production observability and safety: structured Pino logging, Prometheus metrics, append-only audit trails, per-agent cost tracking, a 47-case evaluation harness, and a policy gate enforcing human approval before any writeback.

#### **OTTER: Construction Operations Platform** (*client: Mac Construction*)

- Architected and shipped a production TypeScript platform running daily at a 30-employee contractor managing 40+ active jobs: scheduling, digital daily safety forms, invoicing, document generation, and file management.
- Modeled the domain across 43 PostgreSQL tables (Prisma) and 70+ REST endpoints; implemented a 5-tier role hierarchy with 25 granular permissions, per-user overrides, and full audit logging, plus a multi-format document pipeline (PDF, Excel, DOCX) for client-specific invoices, T&E forms, and CTR spreadsheets.
- Deployed serverless on Vercel with Neon Postgres and Blob storage; hardened with CSRF protection, rate limiting, JWT sessions, and HMAC-signed integration with an internal ticketing service; cut foreman admin time roughly 30% through automated workflows.

#### **Shafer Law Payments: Stripe Billing System** (*client*)

- Built and deployed a production invoicing and online-payment system for a law firm: Stripe Checkout (cards, ACH, Apple/Google Pay), token-gated payment links, and automated email receipts.
- Engineered for correctness and compliance: signature-verified idempotent webhooks with two-layer deduplication, atomic invoice numbering, integer-cent accounting, ACH payout reconciliation, and an append-only audit log for bar-association review (PCI SAQ-A). Stack: Next.js, TypeScript, Prisma, PostgreSQL, Stripe, Clerk, Vercel.

#### **WINRATE & Airport: Agent Platforms** (*internal R&D*)

- **WINRATE:** autonomous RFP-response platform with 5-agent orchestration (orchestrator, analyzer, writer, compliance, QA) over hybrid pgvector + keyword semantic search, with real-time SSE agent streaming and human-in-the-loop checkpoints.
- **Airport:** AI real-estate transaction coordinator automating an estimated 65–75% of admin work using 6 agents and Claude Vision for document extraction, with a Florida compliance engine covering 15+ statutes and business-day deadline logic. Stack: React, TypeScript, Hono, FastAPI, PostgreSQL, pgvector, Claude API, Redis, S3.

#### **Media Made Fresh | Full Stack Developer**

May 2024 – Oct 2025 · Jacksonville, FL

- Architected an AI social-media automation system saving 100+ hours/month via n8n workflow automation.
- Researched Azure AI hosting architectures (OpenAI endpoints, GPU VMs, AKS) for enterprise deployment proposals.

## **EDUCATION**

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#### **Florida State University** | B.A., Computer Science

May 2025 · Tallahassee, FL

Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Computer Networks, Software Engineering, Discrete Mathematics

## **ADDITIONAL**

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**Portfolio:** baywestlabs.com · OTTER (construction ops) · shafercriminallaw.com · bavarianrennsport.com · lamborepair.com | **GitHub:** github.com/sheldon904

FSU Cybersecurity Club · Competitive skiing (FSU Snow Club) · Wilderness First Aid certified (led emergency field evacuations) · Copper repoussé