

NIAM LESTOURGEON

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SUMMARY

Data and AI engineer. Built, deployed, and operates a multi-tenant AI platform on AWS that runs unattended on a schedule: it pulls live data from six external APIs into typed, validated records in PostgreSQL, classifies unstructured news with Jev, reasons over the result with Claude against a user-defined strategy document, enforces guardrails before anything is released, and grades every decision against real outcomes. Comfortable across the whole range a data role touches — SQL and Python for analysis, pipelines and API integration for getting the data there, Tableau and Power BI for putting it in front of people, and CI/CD with automated testing and security scanning for keeping it reliable. Studying Applied Business and Technology Solutions at ASU (December 2026), which is why the first question is always what decision the data is for. Open to data analyst, data science, data engineering, and ML/AI engineering roles.

TECHNICAL SKILLS

Machine Learning: LLM fine-tuning (4-bit adapter on Qwen3-4B; Laya checkpoints, frozen encoder), calibration (Brier, ECE, reliability, fitted confidence thresholds), logistic/ridge baselines, AUC/F1, bootstrap CIs, leakage-safe backtests

AI / LLM: Claude API, tool use / forced tool schemas, retrieval-augmented generation, agent design, LLM evaluation and drift detection, confidence gating

Languages & Data: Python, SQL, TypeScript, JavaScript, PostgreSQL (row-level security), Tableau, Power BI, Excel

Backend & Cloud: FastAPI, Node.js, Colyseus (real-time multiplayer), React, REST APIs, Stripe, JWT auth; AWS Lambda, EventBridge, SQS, CloudFront, S3, KMS, CDK

DevOps & Tools: GitHub Actions CI/CD, pytest, bandit, pip-audit, secret scanning, load testing, Git, Supabase, Claude Code

PROJECTS & ENGINEERING EXPERIENCE

Founder & AI Engineer | Football Agent (footballagent.tech) — Self-directed, production *August – September 2026*

- Built a multi-tenant AI agent that sends paying subscribers weekly lineup, waiver, and trade picks, merging six REST APIs and four news feeds into typed context for Claude, with guardrails, confidence gating, and hit/miss grading.
- Deployed serverless on AWS with CDK (EventBridge → SQS → Lambda, Postgres with row-level security), KMS-managed secrets, and a CI pipeline running 70+ tests and security scans.

Creator & Full-Stack Developer | Farmstead World (farmsteadworld.app) — Self-directed, live *October 2026 – Present*

- Built and launched a multiplayer farming economy game in TypeScript (Node/Colyseus server, React + Phaser client, Supabase Postgres) with a player-run exchange priced by supply and demand.
- Engineered for integrity and scale: serialized mutations so multi-farm trades settle atomically, a replay-proof transaction ledger, 570+ automated tests, a 100-player load test (p95 615 ms), and tag-triggered CI/CD deploys.

AI & Quant Research Engineer | Stock Bot — Self-directed research, paper trading *October 2026 – Present*

- Built a Python trading-research system across five markets on Alpaca paper trading that logs every decision, including each one not to trade, with forward-return outcomes for calibration (Brier, Wilson intervals).
- Benchmarked an LLM against a ridge logistic baseline (AUC 0.631 vs 0.925) and re-routed numeric signals to the logistic; ran pre-registered tests with kill rules and retired an intraday strategy that failed after costs.

PROFESSIONAL EXPERIENCE

Family Ministry Intern -> Youth Coordinator | Hiway Baptist Church — Mesa, AZ *Jan 2024 – Mar 2026*

- Designed a teaching curriculum and trained volunteers to deliver it consistently across weekly programs, turning an informal process into a repeatable one.
- Managed scheduling, staffing, and resources for Sunday and Wednesday programming serving 50+ families.
- Served as primary point of contact for families, gathering feedback and adjusting programs accordingly.

Craft Assistant | Arizona State University, School of Earth & Space Exploration — Tempe, AZ *Sep 2023 – Jul 2024*

- Provided audio/visual and classroom technology support for faculty lectures and department events; troubleshoot and maintained equipment to keep sessions running without interruption.

EDUCATION & CERTIFICATIONS

B.A., Applied Business and Technology Solutions — WP Carey School of Business, ASU, Tempe, AZ • December 2026

- Certifications: Claude Academy: Claude 101 (Anthropic, 2026); Data Analysis for Sustainability — Intel Project (Global Career Accelerator, 2024); Data Analytics Part 1 (2024); Coding for Data Part 2 (2023); Website Audience Analysis — The GRAMMYS Project (2023)