

Peter Morgan

Machine Learning Systems Engineer & Full-Stack Developer

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Profile

Machine Learning Systems Engineer and independent full-stack developer who takes AI applications and internal platforms from requirements through deployment and operation. Built enterprise workflows at Salem, a managed website platform through Ironsight, and revenue-generating SaaS at LafitteWare. Extensive corporate Microsoft 365 experience; brings data organization, site administration, controlled publishing, and workflow automation to a SharePoint modernization contract.

Relevant skills

Information and workflows: Microsoft 365 corporate experience; data modeling; metadata; indexing; deduplication; approval workflows; API integration.

Software development: Python; TypeScript; React / Next.js; Astro; React Native / Expo; FastAPI; PostgreSQL; SQLite; Prisma.

Delivery and operations: Tenant-scoped application access; validation; versioned releases; rollback; backups; monitoring; job queues; technical runbooks.

Infrastructure and automation: Cloudflare Workers / R2; Docker; scheduled processing; AI orchestration; transcription; FFmpeg.

Professional experience

Machine Learning Systems Engineer

Salem | April 2026–Present

- Independently built and directed internal applications spanning operations, analytics, media-asset organization, and automated production workflows.
- Designed structured information intake, review steps, and operational dashboards around business processes and existing user workflows.
- Implemented data-transfer patterns that reuse asset references, pass source URLs directly to processing services, and support direct-to-storage uploads in related tools.
- Built transcript-driven editorial briefs and clip-processing workflows; developed related automated editing, captioning, reframing, and assembly pipelines with operating documentation.
- Built collection, normalization, analysis, and reporting layers for internal analytics applications; worked extensively with Microsoft 365 in a large corporate environment.

Software and venture experience

Software Development and Business Delivery

Ironsight Data / IronSites | Current work

- Built IronSites across architecture, application development, client workflows, publishing, and ongoing operations using Python, PostgreSQL, Astro, Cloudflare Workers, and R2.
- Implemented tenant-scoped content editing with version checks, schema validation, rendered-output checks, review controls, and versioned publishing. Complete uploads precede release activation; retained releases support rollback without rebuilding.
- Developed backup and restore-drill procedures, health monitoring, and operational views for failed jobs and recovery work.
- Built content ingestion, metadata indexing, duplicate detection, and business-record enrichment tooling using Python, FastAPI, PostgreSQL, Redis, SQLite, and workflow automation.

Founder and Software Developer

LafitteWare LLC | 2024–Present

- Built and continue to operate ExamWhisper, a revenue-generating AI study SaaS with a Next.js web application and Expo / React Native mobile app.
- Own product architecture, interface development, camera-based question analysis, audio responses, authentication, subscriptions, deployment, and ongoing operation; integrate Clerk, Stripe, RevenueCat, Prisma / PostgreSQL, and model APIs.
- Built ClipFactory with a durable PostgreSQL job queue, explainable clip scoring, feedback-driven selection profiles, face-aware framing, branded captions, and verified FFmpeg exports.

Additional experience

- Independent projects — automated trading and prediction systems with backtesting, execution, and monitoring; additional web, mobile, and AI product development.

Education

B.S. Cybersecurity & Information Assurance — Western Governors University. In progress.

Selected work

ironsites.cc | barto.ironsites.cc | www.visionask.com