

Ian Le Blanc

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Professional Experience

Founder & Software Developer - [SplitSound.app](https://www.split-sound.com) Jan 2026 – Present

- **Technologies:** Python • FastAPI • TypeScript • AWS (ECS, S3, RDS, SQS, IAM) • Terraform • Async workers • Audio processing
- **Product Launch:** Fully built a web-based AI audio separation product with a complete core loop: presigned multipart uploads, async job, preview/download and library. Turned early traffic into paying users, validating demand.
- **Cloud & Distributed Architecture:** AWS backend with SQS-backed workers for long-running jobs; FastAPI control, PostgreSQL job lifecycle, decoupled from file upload via S3 presigned links. Designed to handle traffic spikes, retries and failure isolation.
- **Data Integrity:** Made the system safe under retries: idempotent finalize for upload, idempotent job transitions, and replay-safe Stripe webhook handling, preventing duplicate rows, duplicate outputs and double-settlement.

Backend Platform Developer - Desjardins Apr 2024 – Jan 2026

- **Technologies:** Python, SQL • API design • ETL pipelines • Event-Driven Systems • Git • Azure DevOps • Shell Tooling
- **End-to-End Integration Platform Ownership:** Designed, built, and operated secure integrations and pipelines that connect cybersecurity tooling end-to-end, providing alerts and data to cybersecurity analysts, improving incident response reliability, speed and reducing operational friction across teams.
- **Production Data Pipeline Design:** Architected and operated event processing pipelines to deliver consistent, high-fidelity telemetry powering dashboards, detections, and SOAR automations.
- **Platform Transition Delivery:** Led technical work to migrate and re-platform 20+ integrations from IBM Resilient to Splunk SOAR, refactoring interfaces, adapting schemas, and hardening deployments to meet production and security requirements.

Senior IT Integrator - Desjardins May 2021 – Apr 2024

- **End-to-end Delivery Leadership:** Drove banking infrastructure initiatives from charter to production, scoping requirements, translating business needs into technical plans, aligning stakeholders, and executing cutovers with operational readiness.
- **Cross-team Technical Program Coordination:** Orchestrated delivery across multidisciplinary teams (network, security, app dev, etc.), managing dependencies, timelines, and risk to keep complex programs moving as a single system.
- **Cost & Capacity Ownership:** Managed budgets and constraints across hardware procurement, licensing, and resourcing; optimized allocation and utilization across parallel initiatives to reduce waste and delivery friction.

Projects and Ecosystem Contributions

Coalition for Secure AI (CoSAI) - Working Group Member Feb 2026 – Present

- Contributing to an open industry initiative focused on secure-by-design agentic systems, covering AI threat models, secure design patterns, infrastructure impacts, and governance for trustworthy deployment.

AI-Powered Personal Assistant Platform Aug 2025 – Jan 2026

- **Technologies:** FastAPI • PostgreSQL • Redis • Celery • Docker • React • TypeScript • Twilio API • LLM orchestration • Vector search
- **Platform Architecture & AI System:** Built a multi-service AI platform integrating LLM agent platform combining tool-augmented workflows, RAG retrieval and reranking, and layered memory for scalable, context-aware operations.
- **Security & Access Control:** Designed and implemented a full authentication and security stack including JWT access/refresh with secure rotation, MFA (TOTP, SMS, recovery codes), RBAC, Redis-backed sessions, rate limiting, and account protection/monitoring.

Education

Université du Québec à Montréal - Bachelor of Science in Business and Management Jan 2020 – Jul 2023

- Built strong skills in product lifecycle thinking (market analysis, positioning, pricing, operations, and stakeholder management).

Coursera - Deep Learning Specialization Nov 2022 – Jan 2023

- In-depth training in deep learning covering neural networks, optimization, convolutional networks, sequence models, and best practices for structuring machine learning projects.

Coursera - AWS Cloud Solutions Architect Professional Certificate Mar 2026 – May 2026

- Hands-on training in designing secure, highly available, cost-aware AWS architectures (networking, IAM, resilience, and core services) at a Solutions Architect–Professional depth.