

LUKAS PANOS

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EDUCATION

Queen's University, Kingston, ON

Bachelor of Science in Computing, Specialization in Software Design

Expected Graduation: April 2028

GPA: 3.61/4.0

EXPERIENCE

Machine Learning Engineer

QMIND

Sep 2026 — Present

Kingston, ON

- Selected for a design team partnering with Distributive (Kingston distributed-computing company) to build a proof-of-concept federated learning package on its DCP platform, applied to predicting patient response to biologic treatments.
- Co-built a full-stack federated learning system at the QMIND hackathon, training a heart disease prediction model on public patient data from multiple countries without pooling it, using differential privacy and secure aggregation.

Senior Marketing Specialist

Versatile Agency

Mar 2024 — Oct 2025

Montreal, QC

- Managed 30+ real estate client accounts across Meta, Google, and YouTube — overseeing \$40K+ in monthly ad spend with full accountability for CPL and ROAS.
- Rebuilt the agency's full operational infrastructure including GHL pipelines, ISA workflows, lead routing automations, and reporting SOPs — cutting manual reporting time by 5+ hours per week.

LEADERSHIP EXPERIENCE

Chief Executive Officer

OXF Media

Mar 2023 — Jun 2025

Vancouver, BC

- Founded and ran a real estate marketing agency solo — \$10K monthly revenue, \$7K+/month in managed ad spend, all sales and client acquisition from zero, 70%+ retention.

PROJECTS

Agency Copilot — SaaS Platform for Marketing Agencies | Website

Next.js 16, React 19, Supabase, Clerk, Puppeteer, Recharts · Deployed on Vercel · **Active users**

- Built a full-stack multi-tenant SaaS platform combining Meta Ads data, GoHighLevel CRM pipelines, and team management into a single command center — replacing 3+ disconnected tools and eliminating manual spreadsheet workflows.
- Engineered an AI reporting engine (Anthropic Claude API) that auto-generates executive briefs and client-facing PDF reports — cutting reporting from 2+ hours to under 5 minutes per account.

Volatility Regime Classifier — ML Forecasting & Strategy Validation | Source Code

Python, scikit-learn, XGBoost, Pandas, NumPy, Matplotlib

- Forecast Nasdaq-100 volatility regimes 10 days ahead using leak-free expanding-percentile labels and gapped walk-forward CV: 71.4% out-of-sample accuracy vs a 67.9% persistence baseline.
- Built a regime-based exposure strategy cutting realized volatility 21.4% to 8.8% and max drawdown 35.3% to 13.7% vs buy-and-hold, out-of-sample.
- Engineered a Monte Carlo validation layer (5,000-path block bootstrap, 2,000-iteration permutation test) proving the strategy's timing edge was statistically indistinguishable from chance and quantifying the gap between prediction accuracy and tradable alpha.

DocMind — AI-Powered Document Intelligence Platform | Website | Source Code

Next.js 16, React 19, Supabase pgvector, Tailwind CSS v4 · Deployed on Vercel

- Built a full-stack RAG web app enabling users to upload PDFs and receive cited, source-grounded answers — using a custom vector search pipeline with Supabase pgvector (ivfflat cosine index) and OpenAI embeddings.

Double-Entry Ledger Service — Payments Infrastructure | Source Code

Python, FastAPI, PostgreSQL, Docker, pytest, Hypothesis

- Built a payments-grade ledger API: append-only entries with per-currency zero-sum enforced at the database layer, atomic idempotency keys safe under concurrent retries, and two-phase authorization holds with partial capture and derived available balances.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML/CSS

Frameworks: Next.js, React, FastAPI, Tailwind CSS, Pandas, NumPy

ML & AI: scikit-learn, XGBoost, Keras, fast.ai, time-series CV, Claude API, OpenAI embeddings, RAG, pgvector

Tools: PostgreSQL, Supabase, Docker, Git, Vercel, Clerk, Puppeteer · Fluent in English & French