Jackson Moores

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EXPERIENCE

Strategic Analysis Corporation — Remote
AI-Accelerated Platform Developer (Intern) — Apr 2026 – Present
Generative AI Research & Optimization (Contract) — Mar 2026 – Apr 2026

- Lead engineering and architecture for a **commercial equity-research SaaS platform** replacing the firm's legacy product, built on Next.js, FastAPI, and PostgreSQL with Stripe billing and SnapTrade brokerage connectivity.
- Re-engineered proprietary **C# calculation code in Python**, achieving exact output parity across **14,000+ automated tests**; migrated 10+ years of financial data from a legacy SQL database to PostgreSQL.
- Built **20+ scheduled financial-data pipelines** on Python workers and a PostgreSQL-backed job queue, integrating three market-data providers for earnings, dividends, corporate actions, FX, and indexes.
- Developed **LLM-powered financial research and natural-language screening tools** using function calling, a centralized AI gateway, model fallback, and cost controls.
- Built an in-house **customer support ticketing system** (Next.js, Supabase, Gmail API) that replaced a paid third-party service, with threaded conversations and ticket assignment; in production for 5+ months.
- Run an **agentic development workflow** across Claude Code, Codex, and OpenCode, with every change gated by CI tests and cross-model code review.

QUANTT – Queen's Algorithmic & Network Trading Team — Kingston, ON
Chief Technology Officer — Mar 2026 – Present
Project Manager — Aug 2025 – Apr 2026
Quantitative Analyst — Sep 2024 – Aug 2025

- Lead the club's technical infrastructure and co-lead its R&D team; built and maintain **quantt.ca** and **connect.quantt.ca**, a club-wide platform for sponsor connections and internship applications.
- Led development of a **statistical pairs-trading framework** across 142 equities using PCA, OPTICS clustering, and walk-forward backtesting; achieved a **5× higher validation pass rate** than random pair selection, while Kalman hedging increased out-of-sample profitable pairs from **41% to 64%** after transaction costs.

Community Living Owen Sound & District | *Data Transfer Assistant* — Jun 2025 – Aug 2025
Hutten & Co. Land and Shore | *Landscape Labourer (Summers)* — 2021 – 2023

EDUCATION

Queen's University — Kingston, ON
B.A.Sc. Mathematics & Engineering (Computing & Communications) — Expected May 2027

- **Relevant Coursework:** Data Structures & Algorithms, Probability, Stochastic Processes, Control Theory, Information Theory, Advanced Calculus

TECHNICAL SKILLS

Languages	Python, TypeScript, SQL, C#, C/C++, Java
Frameworks	Next.js, React, FastAPI, Pydantic, Tailwind CSS
Mathematics	Probability, stochastic processes, statistics, linear algebra, optimization
Data & Quant	NumPy, pandas, SciPy, scikit-learn, statsmodels; time-series analysis, backtesting, Kalman filters
Infrastructure	PostgreSQL, Supabase, Linux, GitHub Actions, Railway, Vercel, Cloudflare, VPS hosting
AI Engineering	Claude Code, Codex, OpenCode; OpenAI & Anthropic APIs, LLM tool calling, AI gateways