

Domenico Nota

✉ Domeniconota65@gmail.com | [in linkedin.com/in/domenico-nota-bb4b873ba](https://www.linkedin.com/in/domenico-nota-bb4b873ba) | github.com/DomenicoNota

Education

University of Toronto

September 2023 – May 2027

Bachelor of Science in Computer Science, Minor in Mathematics

Toronto, ON

- Relevant coursework: Data Structures & Algorithms, Operating Systems, Databases, Software Engineering, Object-Oriented Programming, Machine Learning

Experience

Bid Engine

January 2026 – Present

Founding Engineer

Toronto, ON

- Built Claude-powered Python pipeline parsing construction tender PDFs into scoped line items grouped by trade category
- Engineered Java Spring Boot MCP server exposing tender, catalog, and pricing tools to LLM agents over JSON-RPC
- Built matching service filtering suppliers and contractors by category, service area, price band, and rating-weighted rank
- Architected event-driven Spring Boot microservices on Azure AKS with Kafka fanout for bidder invitation workflows
- Orchestrated LangGraph estimation agent with retry logic flagging <80% confidence matches for human review

University of Toronto

January 2025 – April 2025

Machine Learning Engineer, Academic Project

Toronto, ON

- Built full-stack ML stock trading simulator in a 4-person team using React, Flask, MongoDB, and live market data
- Trained LSTM, RNN, and KNN forecasting models with TensorFlow and scikit-learn for real-time backtesting
- Engineered Yahoo Finance data pipeline processing 10,000+ data points per minute with batched MongoDB writes
- Implemented portfolio simulation views for trade execution, model comparison, and historical performance analysis

Projects

LogStream Observability Platform | *Rust, Go, PostgreSQL, Docker, Kafka, React*

- Built lightweight log ingestion platform with a Rust agent that tails local files, parses structured and unstructured logs, batches events, and retries failed delivery to a Go backend
- Designed Go ingestion API with PostgreSQL persistence, API key authentication, request validation, cursor pagination, and search/filter endpoints for service, severity, timestamp, and message content
- Implemented production-style reliability features including dead-letter handling, dropped-log counters, structured errors, health checks, Docker Compose, database migrations, and CI-tested service boundaries

Algorithmic Trading Platform | *Python, FastAPI, React, Vite, SQLite, pytest*

- Built full-stack trading platform for backtesting, paper trading, broker-readiness workflows, live bot controls, diagnostics, equity charts, and trade history
- Engineered modular strategies for equities, ETFs, crypto, and futures proxies with configurable exits, position sizing, risk controls, and portfolio accounting
- Integrated Alpaca, IBKR, Coinbase, and Questrade workflows with safety guards, broker validation, paper execution, CSV reporting, and local-first controls

Sportsbook Analytics Platform | *Next.js, TypeScript, React, Supabase, Vitest*

- Built multi-book odds dashboard aggregating provider data, normalizing events and markets, and ranking high-value opportunities across NHL, NBA, NFL, MLB, UFC, and soccer
- Engineered arbitrage and market-hole scanner detecting true arbitrage, line gaps, outlier prices, stale-market risks, and profitable alert candidates
- Implemented cron-protected scan APIs, caching, provider failure reporting, and Chrome extension prototype for visible sportsbook price verification

Technical Skills

Languages: Python, TypeScript, Go, Rust, Java, C, SQL

AI/ML: LangGraph, LangChain, Vercel AI SDK, vLLM, OpenAI/Anthropic SDKs, ChromaDB, pgvector, OpenSearch

Frameworks: React, Next.js, Node.js, FastAPI, Flask, Spring Boot, Hono, Gin

Infrastructure: AWS, Azure, GCP, Docker, Kubernetes, Kafka, Redis, PostgreSQL, ClickHouse, Temporal

Concepts: RAG, LLM Agents, Tool Use, MCP, Reranking, Hybrid Search, Semantic Caching, Streaming, Distributed Systems