

Thomas Semczyszyn

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EDUCATION

University of Toronto

Bachelor of Science, Computer Science & Statistics

Toronto, ON

Apr. 2025

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, C

Frameworks & Data: Node.js, Express, Django, Flask, Next.js, React, Flutter, PostgreSQL, MongoDB, Redis, LangChain

Cloud & DevOps: AWS (Lambda, SQS, EventBridge, ECS/Fargate, EC2, RDS, S3), GCP (Cloud Run), Docker, GitHub Actions

WORK EXPERIENCE

StockAgents (AI-Driven Financial Intelligence Startup)

Toronto, ON

Founding Engineer

Jan. 2026 - Present

- Engineered the ingestion backbone behind the product's ranking and scan engine, pulling hourly options data across **4,000+** tickers into MongoDB and deriving **100+** financial metrics per name
- Built the forward-testing engine (Lambda, SQS, EventBridge) that validates model accuracy in production, running **40** daily strategy scans and settling live-priced options positions into an 8-metric scoreboard of win rate, Sharpe, and drawdown
- Built the Stripe billing stack with subscription checkout, tiered entitlements, and webhooks syncing payment state to Postgres, supporting the platform's first paying customers, hardened against duplicate checkouts and missed cancellations
- Backfilled **5 years** of daily stock and options history via parallelized, batched ingestion scripts, sustaining **~3,000 requests/min** against the FMP API without a single rate-limit trip
- Collapsed thesis parsing and follow-up generation from two LLM calls into one batched inference, halving token spend by eliminating duplicated context and removing a full round-trip of latency

Keel Digital Solutions (Mental Health Software Company)

Toronto, ON

Software Engineer

Sep. 2025 - Jul. 2026

- Cut in-app message load from **5s to 0.2s** by diagnosing and rewriting the query behind the platform's top latency complaint, eliminating an expensive join after ruling out indexing fixes
- Owned data requirements for a product team, defining output and performance guidelines with an external ML team in a technical proposal approved by the CTO and COO
- Shipped a new product capability enabling organizations to deploy custom consent forms, building paginated, filterable REST endpoints backed by new Postgres tables
- Migrated production logging to contextLogger, giving every request a traceable ID across services in Elastic and cutting debugging time for cross-service issues

Software Engineering Intern

May 2025 - Aug. 2025

- Remediated **10+** high-risk vulnerabilities including SQL injection and dependency CVEs, verifying fixes with containerized end-to-end API tests written with AVA
- Extended Keycloak registration tokens with custom user attributes and integrated them into API auth workflows, enabling attribute-based user flows at registration

Blockhouse (Financial Technology Startup)

New York City (Remote)

Software Engineering Intern

Sep. 2024 - Dec. 2024

- Shipped RESTful Django endpoints and resolved production bugs under live traffic, backed by Selenium WebDriver end-to-end coverage of critical user flows
- Integrated Datadog across the backend, tracking latency, throughput, utilization, and API error rates

AWARDS

Machine Learning Course Competition | University of Toronto

Apr. 2025

- 2nd** of **70+** teams, implementing a neural network from scratch in Python (no external libraries) at **88%** test accuracy

Hacklytics Data Science Hackathon | Georgia Institute of Technology

Feb. 2024

- 3rd** place in Finance Track and Best Use of Intel Developer Cloud among **200+** entries, for a deep-learning model forecasting real-estate growth from satellite imagery