

Israel Obukonise

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EDUCATION

Carleton University

Ottawa, ON

Bachelor of Computer Science, AI & Machine Learning Stream

Sept. 2025 – Apr. 2029

- **Relevant Coursework:** Introduction to Computer Science I and II, Discrete Structures I, Linear Algebra I

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Electron, Node.js, FastAPI, Vite, PySide6, Next.js, pandas, Matplotlib,

Databases & Systems: SQLite, PostgreSQL, REST APIs

Developer Tools: Git, GitHub, VS Code, IntelliJ IDEA, Vercel, Render, electron-builder

EXPERIENCE

Data & Software Engineering Assistant

Jul. 2025 – Nov. 2025

African Food Market

Hamilton, ON

- Supported the preparation, cleaning, and validation of raw **POS sales data** from CSV exports using **Python** and **pandas**, improving data usability for reporting and operational review.
- Assisted with **data analysis** on transaction records using **pandas** for filtering, aggregation, and grouping to identify sales trends, product demand patterns, and inventory planning insights.
- Contributed to lightweight **data processing workflows** that improved the consistency, organization, and tracking of sales and inventory records for day-to-day operations.

Code Instructor

Nov. 2025 – Present

Code Ninjas

Barrhaven, ON

- **Delivered instruction** in **Java** and **C#**, helping students build programming fundamentals, logical thinking, and debugging skills.
- **Guided students** through coding exercises and structured problem-solving workflows, breaking technical concepts into clear steps.
- **Diagnosed logic and runtime issues** in student programs, improving code reliability and reinforcing understanding of program behavior.
- **Maintained an organized learning environment** and supported daily classroom operations through clear communication and teamwork.

PROJECTS

Latch | *Electron, React, TypeScript, Node.js, SQLite*

Feb. 2026 – Present

- Built and shipped a **local-first desktop inbox intelligence platform** using **Electron, React, TypeScript, and Node.js**, delivering a downloadable **Windows application** for end users.
- Implemented **Gmail and Outlook ingestion** with **OAuth 2.0** and **PKCE**, storing normalized provider data in **SQLite** as a unified local source of truth for threads, metadata, and action state.
- Designed a **deterministic triage and workflow engine** that detected operational signals, classified threads into priority buckets, and supported bulk actions, reply-draft generation, encrypted token storage, and reliable sync controls.

PulseBoard | *Python, PySide6, PostgreSQL, SQL, R*

Feb. 2026 – Present

- **Built a desktop system intelligence application** that monitors **5+ live telemetry signals**, including CPU, RAM, GPU, battery, and process activity, with **sub-second visual updates** through a custom **PySide6** interface.
- **Designed a 9-table PostgreSQL telemetry model** and **SQL query layer** that powers **24-hour baselines**, session comparisons, process-impact analysis, and replayable event timelines.
- **Integrated an R analytics engine** that computes workload fingerprints, anomaly scores, and resource forecasts against historical baselines, surfacing **explainable insights** directly in the desktop application.

Market Signal Monitor | *Python, FastAPI, React, Vite, WebSockets, Ollama*

Jan. 2026 – Present

- **Built a market intelligence dashboard** that surfaces high-signal Reddit posts relevant to financial markets using a **FastAPI** backend and **React/Vite** frontend.
- **Developed a streaming alert pipeline** with **WebSockets** to push live post updates, signal summaries, and ranked discussions into an interactive dashboard experience.
- **Integrated LLM-based enrichment** to generate post summaries, likely sectors, and market relevance signals, supporting faster review of noisy unstructured content.