

Israel Obukonise

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EDUCATION

Carleton University

Bachelor of Computer Science (AI & Machine Learning Stream)

Ottawa, ON

Sept. 2025 – Apr. 2029

RELEVANT COURSEWORK

Completed / In Progress: Intro to Computer Science I (Python), Intro to Computer Science II (Java & OOP), Discrete Structures, Calculus I, Linear Algebra I

EXPERIENCE

Code Instructor

Nov. 2025 – Present

Barrhaven, ON

- Mentored students through hands-on coding projects, reinforcing structured problem-solving and computational thinking.
- Guided learners in writing, debugging, and improving programs using Java and C# while emphasizing clean code practices.
- Explained programming concepts clearly and consistently, improving student outcomes through step-by-step instruction and feedback.
- Supported troubleshooting and task completion by identifying errors, clarifying requirements, and iterating toward working solutions.

PROJECTS

Black Box Explainer | Python, Streamlit, APIs, LLMs

Feb. 2026 – Present

- Built a Python tool that analyzes and structures LLM outputs to provide clearer context around how responses are generated.
- Designed a modular explanation pipeline that extracts reasoning cues, highlights supporting text, and enforces structured schemas for consistent interpretation.
- Implemented backend-agnostic client interfaces supporting local LLM backends (LM Studio, Ollama) for flexible offline experimentation.
- Focused on transparency and interpretability of black-box model behavior through structured output analysis.

Pulseboard (Windows System Monitor) | Python, PySide6, psutil

Feb. 2026 – Present

- Developed a Windows desktop system monitor with real-time CPU, RAM, and GPU usage tracking and an automatically updating dashboard.
- Built an animated visualization that responds dynamically to workload trends to improve interpretability of system performance.
- Created an Insight Engine that outputs an efficiency score, usage mode, and overall Pulse Grade based on live performance patterns.

Personal Portfolio Website | Next.js, JavaScript, Vercel

Feb. 2026

- Designed and deployed a responsive portfolio website showcasing projects, skills, and contact information.
- Configured deployment using Vercel and implemented custom branding (favicon, consistent UI layout).

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C#

Frameworks & Tools: Next.js, Streamlit, PySide6, Tkinter, AWS, Vercel, GitHub

Data & Libraries: pandas, Matplotlib, yfinance, psutil

Developer Tools: VS Code, IntelliJ IDEA, REST APIs, CLI Tools

TRAINING

AWS YouthTech Bootcamp

Sept. 2025

AWS Cloud Fundamentals, Intro to AI, Hands-on AWS Labs

- Completed hands-on labs using AWS services and AI tooling, including cloud workflows and applied generative AI exercises.