

Selahattin Eldekci

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EDUCATION

Western University

London, ON

Bachelor of Science, Honours Specialization in Computer Science

Expected April 2027

- Relevant coursework: Databases, Unstructured Data (NLP), Introduction to AI, Software Engineering, Operating Systems, Computer Networks

TECHNICAL SKILLS

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

Databases & Data: PostgreSQL, SQL, JSON, REST API integration

Frameworks & Tools: FastAPI, Docker, Git, GitHub Actions (CI/CD), OpenCV, MediaPipe

AI & ML: LLMs, embeddings, retrieval and generation (RAG), prompt engineering, AI-assisted development (Claude Code)

Practices: testing, debugging, async remote collaboration

PROJECTS

TCG Market Price Pipeline | *Python, FastAPI, PostgreSQL, Docker, REST APIs*

2026

- Built a scheduled Python ingestion pipeline that pulls card pricing from the TCGdex REST API, parsing nested JSON payloads and normalizing USD and EUR prices into a PostgreSQL time-series schema.
- Designed a FastAPI service exposing endpoints for cross-market US and EU price spreads with live CAD conversion, containerized with Docker and run on a scheduled GitHub Actions workflow.
- Developed using an AI-assisted workflow with Claude Code to move faster on schema design and endpoint scaffolding.

Semantic Search and LLM Text Generation | *Python, GloVe, MiniLM, GPT-2*

2025

- Built a Python semantic search system using embedding-based retrieval with MiniLM and GloVe, ranking documents by cosine similarity between query and document embeddings.
- Layered GPT-2 text generation on top of the retrieval results, the two stages together forming a retrieval-augmented generation pipeline.
- Compared GloVe against MiniLM embeddings to evaluate retrieval quality on the course dataset, for a solo unstructured-data course project.

SmartGestureControls: Gesture-to-Keypress Controller | *C++, OpenCV, MediaPipe*

2026

- Built a cross-platform gesture controller in C++ with a four-person team, using OpenCV and MediaPipe to translate hand gestures into operating-system key events.
- Processed live webcam frames in real time to detect hand landmarks, mapping recognized gestures to configurable key bindings so new gestures could be added without rewriting the core pipeline.
- Implemented platform-specific input handling, simulating macOS media keys and Windows virtual keys for each operating system.

EXPERIENCE

PaintPlus Ltd.

London, ON

Web Developer

Jan 2024 – May 2025

- Built and maintained front-end features for the company's live website using JavaScript, HTML, and CSS.
- Collaborated with staff to translate business requirements into shipped site changes, and fixed bugs reported against the live site.

Acting Manager

Jun 2025 – Aug 2025

- Led day-to-day operations, streamlining workflows and improving communication across teams.
- Applied analytical problem-solving to improve project tracking and reduce delays.

CERTIFICATIONS

IBM Z Xplore – RACF and z/OS security