

DAYNA DRANITSARIS

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PROFESSIONAL SUMMARY

Computer Engineering undergraduate at Queen's University with hands-on experience in software development, machine learning, and full-stack applications. Strong background in Python, C/C++, Java, JavaScript, and systems-level problem solving through academic and collaborative engineering projects.

EDUCATION

Queen's University

Bachelor of Applied Science, Computer Engineering

Kingston, ON

Sept 2023 – Apr 2027

- Awards:** Ruddell-Albert Award (**\$60,000**) - Academic Excellence, 2023
- Relevant coursework:** Data Science, Data Structures, Object-Oriented Programming, Computer Architecture, Digital Systems, Software Development Methodology, Operating Systems, Algorithms
- Certifications:** IBM Artificial Intelligence Fundamentals, IBM Cloud Computing and Cybersecurity Fundamentals
- General Member, Queen's High-Performance Computing: Trained large-scale deep learning models using PyTorch Distributed Data Parallel (DDP) on the CAC HPC cluster for AI/ML research and competition preparation

EXPERIENCE

Software Developer

Queen's Engineering Society Software Development Team

Kingston, ON

Sept 2025 – Present

- Developed a **real-time interactive display** providing weather, transit routes, events, room availability, news, and a photo booth using a Raspberry Pi 5 and IR touch frame
- Built a **full-stack application** using **React.js**, **HTML/CSS**, **Flask**, and third-party APIs; containerized using **Docker** and deployed via **Vercel**
- Applied **team-based SDLC practices** and **CI/CD** to design, prototype, and integrate hardware and software components

Web & Analytics Assistant

Royal LePage Signature Realty

Toronto, ON

May 2025 – Aug 2025

- Developed and maintained a responsive **real estate website** using **JavaScript**, **HTML**, **CSS**, and **IDX-integrated listings**
- Monitored website traffic using **Google Analytics** to inform UX improvements and increase engagement

Cafe Assistant

Rahier Patisserie

Toronto, ON

Sept 2022 – Jan 2024

- Worked in a fast-paced team environment requiring strong communication, time management, and customer service skills

PROJECTS

Hydroponic Garden Monitor | React, React Native, JSON, HTTP, Node.js, Expo Go, Arduino, IoT

Sep 2024 – Dec 2024

- Built a **sensor-integrated** hydroponic garden for campus use using an **Arduino**, applying **Agile Scrum** practices
- Developed a **React Native mobile** application integrating **real-time sensor data** via HTTP APIs to monitor pH levels, temperature, and camera visuals

Human Activity Recognition | Python, scikit-learn, Tkinter, Pandas, HDF5

Jan 2025 – Apr 2025

- Preprocessed** 100 Hz accelerometer data with **noise reduction** and 5-second **segmentation**; engineered statistical features for **model training**
- Trained** and **deployed** a **logistic regression classifier** (94% accuracy, AUC 0.98) in a Tkinter app for **real-time** CSV classification and visualization

Queen's Hyperloop Machine Vision Sensor System | YOLOv5, Raspberry Pi, LabelImg

Jan 2024 – Apr 2024

- Designed and implemented an **embedded vision system** for a Hyperloop prototype
- Trained** and deployed a custom **YOLOv5** model to detect potential obstructions in **real time (0.92 F1 score per class)**

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, Verilog, Assembly (Nios II), VHDL

Libraries: NumPy, Matplotlib, Pandas, PyTorch (YOLOv5), scikit-learn, Bootstrap, HTML, CSS, Tkinter

Tools: React, React Native, Flask, Node.js (npm), Bash, API integration (REST, JSON, HTTP), Git, Docker, Arduino, Raspberry Pi, FPGA, LTSpice