

DAYNA DRANITSARIS

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PROFESSIONAL SUMMARY

Motivated computer engineering undergraduate at Queen's University with hands-on experience in software and hardware development through academic and extracurricular projects. Skilled in embedded systems, machine learning, and full-stack development, with strong knowledge of Python, C/C++, Java, and IoT. Adept at designing innovative solutions and collaborating across teams, and eager to apply technical expertise and problem-solving to a dynamic engineering internship.

EDUCATION

Queen's University

Kingston, ON

Bachelor of Applied Science, Computer Engineering

Sept 2023 – Apr 2027

- **Relevant coursework:** Introduction to Data Science, Fundamentals of Info Structure, Object Oriented Programming, Computer Architecture, Digital Systems, Software Dev Methodology, Operating Systems, Algorithms
- **Awards:** Ruddell-Albert Award (**\$60,000**) - Academic Excellence, 2023
- **Certifications:** IBM **Artificial Intelligence** Fundamentals, IBM **Cloud Computing** Fundamentals, IBM **Cybersecurity** Fundamentals
- General Member, **Queen's High-Performance Computing**
Developing **parallel programming** and **distributed systems** skills through collaborative projects applied to **AI/ML**, **data-intensive computing**, and **financial modeling** ahead of international Student Cluster Competitions
- Challenge Coordinator, **Queen's Engineering Competition**
Planned and **executed** competition challenge, defining **scope**, **logistics**, budgeting, and delegate/rubric package

EXPERIENCE

Software Developer

Kingston, Ontario

ESSDev - Queen's Engineering Society

Sept 2025 – Present

- Developing **software solutions** addressing real-world problems for Queen's students and the wider community
- Applying the full **SDLC** to deliver **apps**, **APIs**, and **IoT** projects through collaborative, team-based development

Web & Analytics Assistant

Toronto, Ontario

Royal LePage Signature Realty

May 2025 – Aug 2025

- Built a **professional website** using **IDX**, **HTML**, **CSS**, and **JavaScript**
- Monitored website traffic with **Google Analytics** to provide actionable insights for user engagement

Cafe Assistant

Toronto, Ontario

Rahier Patisserie

Sept 2022 – Jan 2024

- Provided excellent **customer service** in **fast-paced** environment, effectively communicating with **diverse clientele**
- Collaborated with team members to ensure **smooth operations** and **high-quality service**

PROJECTS

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

Sep 2024 – Dec 2024

- Built a **sensor-integrated** hydroponic garden for campus use using an **Arduino**, applying **Agile Scrum** practices to complete sprints
- Implemented **real-time WiFi data** monitoring (pH levels, temperature, camera visuals) to a **React Native mobile application**

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

Jan 2025 – Apr 2025

- **Preprocessed** 100 Hz accelerometer data with **noise reduction** and 5-s **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, Labellmg

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, HTML, CSS, Verilog, Assembly (Nios II), VHDL

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

Tools: React, React Native, Node.js (npm), Bash, API integration (REST, JSON, HTTP), Git, Arduino, Raspberry Pi, VS Code, CLion, FPGAs, IoT, LTSpice, sensor integration, LED/LCD interfacing