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**
  Advancing skills in **parallel programming** and **distributed systems** through collaborative projects, including training a large-scale **deep learning model** in **PyTorch** on the CAC HPC cluster for **AI/ML** research and competition preparation

Experience

Software Developer Kingston, Ontario

Queen's Engineering Society Software Development Team *Sept 2025 — Present*

- Developed a **real-time interactive display** providing weather, bus routes, event calendar, room availability, news, and a photo booth using a Raspberry Pi 5 and IR touchframe
- Built a **full-stack application** with **React.js**, **HTML/CSS**, **Flask**, third-party APIs, and **Docker** for containerization and deployment via **Vercel**
- Applied **team-based SDLC practices** to design, prototype, and integrate hardware and software components

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 *Sep 2022 — Jan 2024*

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

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, 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, 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