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
  - Frosh Regulation Enforcement Committee (FREC), **Queen's Engineering Society**
  - General Member, **Queen's Racing Formula SAE Team**
  - Challenge Coordinator, **Queen's Engineering Competition**

EXPERIENCE

Technical Assistant   Toronto, Ontario
Royal LePage Signature Realty   *May 2025 — Aug 2025*
  - Built a **professional website** using **IDX**, **HTML**, **CSS**, and **JavaScript**
  - Ensured all marketing content was compliant with **brokerage** and **real estate board regulations**
  - 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**
  - Collaborated with team members to ensure **smooth operations** and **high-quality service**
  - Maintained a **clean and organized work environment** to comply with **health and safety standards**

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**

NHL Goal Horn Machine | *Raspberry Pi, RapidAPI, API integration, Realterm, PuTTY, Nmap*   *Jan 2025 – Apr 2025*
  - Implemented a **Raspberry Pi system** leveraging live NHL updates via **Rapid API**
  - Programmed **LED sequences**, audio playback, and an **dynamic LCD** display of team names and scores

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, SolidWorks, VS Code, CLion, PyCharm

Hardware/Embedded: FPGA development, Sensor integration, IoT, LED/LCD interfacing, PCB soldering, KiCad, LTSpice, 3D printing & prototyping