

# ELINE-ELORM AWO NUVIADENU, EIT

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## EDUCATION

**Bachelor of Engineering, Computer Systems | Distinction - CGPA: 3.62/4.00** **September 2019 – June 2023**

Carleton University, Ottawa, ON

- **Dean's Honor List** (2020, 2023); Richard J. Van Loon Scholarship (2022); Claude Bissell Scholarship (2021); Entrance Scholarship (2019)

## SKILLS

**Programming Languages:** Python, C, Java, JavaScript, PHP, SQL, Scikit-learn, Assembly Language

**Web Development:** HTML, CSS, React, Bootstrap, MongoDB, Firebase

**Version Control:** Git, GitHub

**Interpersonal:** Communication, Leadership & Mentoring, Teamwork, Critical Thinking, Time Management

## RELEVANT EXPERIENCES, COURSEWORK AND PROJECTS

**Machine Learning Engineer | Capstone | Carleton University, ON** **September 2022 – April 2023**

- Led a team of 4 engineering peers on an ML based project that leveraged **thermal energy images** to support individuals with cognitive disorders.
- Utilized **logistic regression algorithm** with **K-fold cross validation** to achieve **93% accuracy** in distinguishing between the frying and boiling cooking methods.
- Designed a logo and a **React based web application** that sends notifications to relatives and caretakers when a stove use is deemed unsafe.

**Robotics & Software Developer | Carleton University, ON** **January 2022 – December 2022**

- Integrated **PySerial** communication between **Arduino** and **Raspberry Pi** to enable seamless data exchange in the 'Household Fire-fighting and Extinguisher Robot' (FiWER).
- Implemented **live streaming** and **data cleaning** features to facilitate real time communication of FiWER.
- Engineered an Autonomous Snow Plow robot using **IOT** systems, leveraging **IR**, **LiDAR**, and **ultrasonic sensors** for **real-time data processing** which achieved a 25% increase in precision through integrated sensor interfaces for **precise mapping** and **obstacle detection**.
- Demonstrated strong public speaking skills through presentations to convey the capabilities of the robots.

**Teaching Assistant | C Language | Carleton University, ON** **June 2021 – September 2021**

- Developed tutorial videos on **C** Programming concepts tailored for graduate students, raising user engagement.
- Designed chapter quizzes based on Introduction to **Systems Programming** (SYSC 4006) content.
- Collaborated with the SYSC professor by researching and curating course materials to improve student grades.

**Google Software Product Developer | Google | Remote** **May 2021 – August 2021**

- Designed and implemented a **Mental Health App** using **HTML**, **CSS**, **Java**, and **JavaScript**, leveraging various **GCP APIs** with a team at Google.
- Developed and deployed a portfolio of work using **Google App Engine**.
- Conducted code reviews, contributed to open-source software using **Git** and **GitHub**, and participated in distributed development.

**E-Commerce Java Application | Carleton University, ON** **January 2021 – April 2021**

- Built the functions and attributes of a **Java-based e-commerce shoe store**. Integrated JUnit tests and refactored code logic to improve the graphical user interface and enhance user experience.
- Designed a Unified Modelling Language (**UML**) diagram to represent the e-commerce system by depicting the relationships between entities.

## VOLUNTEER EXPERIENCE AND EXTRACURRICULAR ACTIVITIES

**STEM Diploma Tutor | Calgary, AB** **September 2023 – Present**

- Tutoring high school students in AP Physics and AP Mathematics in preparation for diplomas and STEM majors.

**Software Lead | ESDC | Carleton University, ON** **September 2021 – April 2023**

- Led a team of 42 students using **agile methodology** to design and develop a website for the Electric Self Driving Car (ESDC) Club, leveraging tools such as **HTML**, **CSS**, and **Bootstrap**. This was part of an effort to initiate the club's online presence.

**Accessibility Advocate & Mentor | Carleton University, ON** **September 2019 – April 2023**

- Transcribed class content in real-time to enhance accessibility for students with learning disabilities and provided mentorship to six incoming freshmen for a seamless transition to university.