

ANTON DAVID GUAMAN DAVILA

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EDUCATION

Bachelor of Computer Engineering (Co-op) Program
Memorial University of Newfoundland

📅 Sep 2020 – Present 📍 St. John's, NL

- Academic Term VI, Class of 2025

WORK EXPERIENCE

Co-op Engineering Student
Office of the Chief Information Officer (OCIO)

📅 May 2023 – Aug 2023 📍 St. John's, NL (Hybrid)

- Migrated two reporting applications to Oracle APEX, improving user experience and accessibility
- Leveraged SQL for effective data manipulation, extraction, and reporting using joins. Successfully optimized query performance, reducing execution time from 8 minutes to 3 minutes through strategic indexing and the implementation of materialized views
- Documented project progress, solutions, and best practices for APEX tools, ensuring valuable future references and knowledge sharing
- Revised and enhanced the existing disaster recovery plan document for the two migrated applications

Co-op Engineering Student
National Research Council Canada (NRC)

📅 Sep 2022 – Dec 2022 📍 Ottawa, ON (Remote)

- Enhanced PSPC EMIS dashboard by upgrading and optimizing code according to standardized guidelines, ensuring improved readability and maintainability
- Developed Java classes in Maven and Eclipse to convert Criteria Query code into HQL, enabling efficient retrieval of metered information. Conducted JUnit tests to verify query accuracy

Co-op Engineering Student
Office of the Chief Information Officer (OCIO)

📅 Jan 2022 – Apr 2022 📍 St. John's, NL (Remote)

- Upgraded the Fisheries, Forestry, and Agriculture department's Seafood Products Directory web application using ASP.Net framework, enhancing its functionality
- Completed front-end development tasks, including HTML and Classic ASP organization, CSS styling with grid, flexbox, fluid, and responsive layouts, and JavaScript enhancements for improved user interactivity and navigation

Resident Assistant
Student Residences, MUN

📅 Jan 2022 – Present 📍 St. John's, NL

- Fostered a secure, inclusive living-learning environment, supporting residents in academics, personal growth, and community engagement
- Developed and implemented Residence Life activities, fostering a positive and engaging residential community

EXTRACURRICULARS

Software Team
Iceberg ASV

📅 May 2022 - Present 📍 St. John's, NL

- Code development for Autonomous Surface Vehicle (ASV) using ROS on Linux
- Set up Nvidia TX2, Lidar, and Intel RealSense hardware to enable navigation and object detection in aquatic environments
- Utilized RoboFlow to develop a YOLOv5 object detection model for objects in aquatic environments
- Recognized as a Finalist and Rookie of the Year in the RoboBoat 2023 competition

SKILLS

C/C++

Python

Java

APEX

Full-Stack

SQL/HQL

Maven

Oracle DB

Git/GitLab

Asana

Linux

Windows

SVN/TortoiseSVN

ROS

CV

Jira

NN/CNN

Roboflow

TensorFlow

MATLAB

MacOS

Classic ASP/ASP.Net

VHDL

Assembly Language

Trello

Docker

Teamwork

Communication

French

Time Management

Leadership

HONORS

- 🏆 Verafin Inc. Computer Engineering Scholarship
- 🏆 Faculty of Engineering Dean's List

CERTIFICATIONS

- DeepLearning.AI Certifications
 - Intro to TensorFlow for AI, ML, and DL
 - CNN in TensorFlow
 - Custom Models, Layers, and Loss Functions with TensorFlow
- Google Certifications
 - Foundations of Cybersecurity
 - Manage Security Risks
- Network Security [CISCO]
- Fundamentals of Network Communication [CU]
- Docker for beginners [Coursera]