

# 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

- Fourth Year, Class of 2025

## WORK EXPERIENCE

Software Developer Intern  
Nasdaq

January 2024 – Present    St. John's, NL (Hybrid)

- Developed comprehensive JUnit test suites leveraging Mockito for rigorous validation of real-time payment software, ensuring robustness and reliability in transaction processing.
- Executed advanced data queries to monitor and analyze the performance of real-time payment systems, ensuring a reasonable ratio of transaction volume to alert generation
- Collaborated within a dynamic team environment practicing Agile methodologies ensuring continuous progress and adaptability

Co-op Engineering Student

Office of the Chief Information Officer (OCIO)

Jan 2022 – Apr 2022 and 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
- Enhanced the functionality of the Fisheries, Forestry, and Agriculture department's Seafood Products Directory web application by upgrading it with the ASP.Net framework and completing front-end development tasks using HTML, CSS, and JS

Web Application Developer Intern  
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

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

Computer Vision Software Engineer  
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 in Roboboat 2023 and 2024 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]