

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]