# 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

#### Nasdag

🛗 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)

- 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)**

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**

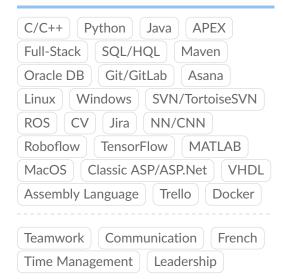
# Computer Vision Software Engineer Iceberg ASV ...

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**



### **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]