

SEBASTIAN DIONICIO



Halifax, NS, Canada



+1 902 880 8194



Sdionicio@dal.ca



[Portfolio](#)



[LinkedIn](#)



[GitHub](#)

EXPERIENCE

MOST RELEVANT EXPERIENCE

Software Development Engineer

AMAZON | INTERNSHIP | MAY 2023 – AUG 2023

- **Amazon Web Services (AWS)**
- Worked on (AWS Confidential) Cloud-Native Software Development Engineering Project for the newly launched **AWS VPC Lattice** service.
- Collaborated with cross-functional teams to develop and implement new features for AWS products.
- Resolved customer issues and conducted thorough testing and debugging to ensure quality and stability of the codebase.

International Olympiad in Informatics (IOI) National Team Contestant

NATIONAL UNIVERSITY OF SINGAPORE | OLYMPIC CODING BOOTCAMP | FEB 2020 – SEP 2020

- **Ranked 2nd Overall in Dominican Republic**
- Represented the Dominican Republic as a National Team **Contestant** in the **most prestigious** Computer Science competition **in the world**.
- Underwent intense training and preparation to acquire **advanced** knowledge and skills in competitive programming, computer science and mathematics, including the majority of pre-graduate and graduate level topics.
- Demonstrated **exceptional** problem-solving abilities, quick thinking, and the ability to work under pressure by solving complex computer science and mathematical problems in the world's **most competitive** and **time-limited** programming competition environment.

OTHER EXPERIENCE

President

DALCSL | FULL-TIME | JAN 2023 – PRESENT

- **DALCSL Founder**
- Led and Co-Instructed multiple Coding Bootcamps in Collaboration with **Shiftkey Labs**, with engagement over 50+ participants per bootcamp, in which topics from the fields of Data Structures and Algorithms, Cloud Computing, and Systems Design were taught.
- Designed and Hosted Multiple Competitive Programming Competitions, with engagement over 35+ participants per competition, utilizing the following platforms: **Codeforces**, Atcoder, **LeetCode**, HackerRank, GeeksForGeeks, CodeChef, TopCoder.

Teaching Assistant

DALHOUSIE UNIVERSITY | FULL-TIME | JAN 2023 – MAY 2023

- **Experimental Robotics**
- Led, Prepared and Instructed the laboratories for the course Experimental Robotics for classes of over 120+ students.
- Collaborated with the preparation, delivery, and evaluation of the course CSCI1109 Experimental Robotics.
- Provided support to students in the form of feedback on assignments and exams, and after-class extra hours.

IT Specialist

MARIAL | FULL-TIME | APRIL 2020– DEC 2021

- **Networking and Servers Administrator**
- Contributed to the design, development, and maintenance of the IT infrastructure of the company, including the implementation and management of Windows, Linux, and Unix based server environments, and the configuration of the company's networking environment.
- Stayed current with the latest advancements and best practices in the IT industry, ensuring the security and integrity of the systems.
- Communicated effectively with both technical and non-technical stakeholders, including customers, vendors, and team members.

Electronics Engineer

SEMINSA | FULL-TIME | MAY 2019 – SEPT 2019

- **Medical Systems**
- Designed, developed, and tested electrical and electronic components, equipment, and systems for medical usage in the field.
- Collaborated with senior engineers to create schematics, wiring diagrams, and test procedures for medical systems.
- Maintained knowledge of industry trends, standards, and regulations, and applied them to projects and operations.

EDUCATION

BACHELOR OF COMPUTER SCIENCE | BCS | DALHOUSIE UNIVERSITY | JAN 2022 – MAY 2026

- **Overall accumulative GPA:** 4.14 / 4.3 "A+" (Sexton Scholar) (Dean's List)

- **Relevant Coursework:** Software Design & Development, Data Structures & Algorithms, Computer Systems, Data science, Web Design & Development, Database Systems, Discrete Mathematics, Computer Science Calculus.

BACHELOR OF ELECTRONICS | B. TECH | INSTITUTO POLITECNICO LOYOLA | AUG 2016 – OCT 2020

- **Overall accumulative GPA:** 9.02 / 10 "A+" (Excellence) (3rd Highest GPA)

- **Relevant Coursework:** Professional Documentation, Prototype Design, Risk Assessment, Digital & Analog Hardware Analysis, Schematics and Simulation Software, PCB Design & Fabrication, Industrial Automatic Measurement and Control Systems, Electrical and Electronics Engineering, Telecommunications, Technological Principles (Physics), Electronic Hardware, Embedded Systems, Microcontrollers, Microprocessors, Oscilloscope Analysis, Industrial Automation and Robotic Systems (PLC), Low level Programming (C, C++, ASM), Assembly Line, IOT devices, Electrical and Electronic Circuits Analysis, Power and Control Equipment, Electrical Waveforms and Signals Analysis.

SKILLS

TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES:** Java, Go, TypeScript, JavaScript, Python, C++, C, Shell Scripting, Assembly.
- **CLOUD TECHNOLOGIES:** AWS (EC2, S3, EBS, Lambda, API Gateway, DynamoDB, RDS, ECS, SQS, SNS, Kinesis, VPC, EKS, CloudWatch, CloudFormation, Fargate, ECR, EMR, Data Pipeline, Report System, CDK, Cloud9, CloudShell, CodeBuild, SDK, CloudPipeline, Route 53, DirectConnect, ELB, ASG, PrivateLink, Lattice, App Mesh, IAM, KMS, CodeDeploy, CodeArtifact, CodeBuild).
- **WEB TECHNOLOGIES:** HTML, CSS, ReactJS, NodeJS, Bootstrap, Tailwind.
- **FRAMEWORKS & LIBRARIES:** Django, Flask, NumPy, Pandas, Matplotlib, Jupyter, Selenium, Maven, Junit, Gradle, Dagger, Guice.
- **DATABASE:** SQL, MongoDB, Firebase, DynamoDB.
- **TOOLS & TECHNOLOGIES:** Git, Docker, Kubernetes, CI/CD, GitHub, Visual Studio Code, Eclipse, IntelliJ, NetBeans, Atom, Packet Tracer, Wireshark, Bash, Zshell.
- **OTHERS:** Virtualization, Containerization, Distributed Systems, Systems Design, Cloud Computing, Machine Learning, DevOps, Dependency Injection, Unit testing, Database Design and Management, Agile Methodology, Scrum, Slack.

SOFT SKILLS

- **COMMUNICATION:** Effectively communicates and works in teams through projects, and establishes respectable long-lasting connections with customers and colleagues.
- **WILLINGNESS TO LEARN:** Always keen to pick up new abilities and receive constructive criticism from my senior supervisors and peers that will advance my professional development.
- **COMMERCIAL AWARENESS:** The customer is always the priority one, and since the company's reputation is represented, I make sure to always deliver the greatest service.
- **SUPPORTIVE:** consistently tries to support and boost colleagues through encouragement, arrives on time, and creates a safe and pleasant atmosphere around coworkers.
- **LEADERSHIP AND PLANNING:** Demonstrates effective leadership maintaining consistent time management, providing guidance to team members, and taking total accountability for completing project deliverables and tasks through appropriate prioritization.

PROJECTS

PATH FINDING VISUALIZER (ONGOING)

Created a fully interactive web application for visualizing path finding algorithms. Technologies include: HTML, CSS, SCSS, JavaScript, ReactJS, NodeJS, Firebase.

Project Link: bit.ly/3v4pP6T

REACT PORTFOLIO

Designed & implemented a fully interactive web application for holding a portfolio using ReactJS. Technologies include: HTML, CSS, SCSS, JavaScript, ReactJS, NodeJS, Firebase, EmailJS, React Leaflet.

Project Link: bit.ly/3FIXWX5

AUTOMATIC WATER RECYCLING SYSTEM

Designed & implemented a fully automatic system for water recycling in urban areas using IOT devices. This project was scheduled in the **Annual Technological Exhibition at IPL (2020)** for an audience exceeding **500+ attendants** over the course of **1 week**. Tools include: Water level sensors (SEN18, LLC 4965), Humidity sensors (DHT11), Temperature sensors (LLC 381), Arduino, Raspberry Pi, Custom PCB Design and Fabrication, Circuitry Soldering, Electronic Design & Assembly, C++ and python programming, Microcontrollers Usage.

WIRELESS POLLUTION CONTROL SYSTEM

Designed & implemented a fully automatic wireless system for regulating air pollution levels in urban areas using IOT devices. This project was scheduled in the **Annual Technological Exhibition at IPL (2019)** for an audience exceeding **450+ attendants** over the course of **1 week**. Tools include: Air quality sensors (MQ series and VOC gas sensors), Wireless Communication Modules (ESP8266, HC-05), Custom PCB Design and Fabrication, Data Visualization Tools, MQTT Broker, Arduino, Raspberry Pi, Circuitry Soldering, Electronic Design & Assembly, C++ and python programming, Microcontrollers Usage.

AWARDS & CERTIFICATES

International Olympiad in Informatics (IOI Singapore 2020) **2nd Place in DOM.**

Ibero-American Competition of Informatics and Computing (CIIC 2020) **3rd Place in DOM.**

National Dominican Olympiad in Informatics (ODI 2020) **Top 10.**

Cisco: Networking (CCNA1), Cybersecurity (CCNA1 Security) and NDG Linux Essentials.

Linux Professional Institute (LPI): Linux Fundamentals.

FreeCodeCamp: React, JavaScript, Shell Scripting, Web Development.

Platzi: Professional Git, Python.

LANGUAGES

- **ENGLISH** – Native proficiency.
- **SPANISH** – Native proficiency.
- **FRENCH** – Full Professional proficiency.

REFERENCES AVAILABLE UPON REQUEST