ALFREDO DOMINGUEZ

dominguezlucio@outlook.com · (902) 549 2709

GitHub · **Website** · **LinkedIn** · **3853 Basinview Dr Halifax, Canada**

Software Developer with passion for technology.

PROFESSIONAL EXPERIENCE

OCT 2022 – PRESENT   **HALIFAX NS**

PROGRAMMING TUTOR, NOVA SCOTIA COMMUNITY COLLEGE

Facilitating learning on these topics:

- **Database Systems & SQL**. Relations, primary key, foreign key, superkey, normalization and transactions.
- **Web Programming**. JavaScript, ECMAScript 6, Document Object Model, REST, Dynamic rendering, ORM, Spring Boot, PHP.
- **UNIX/Linux**. Hypervisor, virtualization, bash scripting, server OS, pipes.
- **C++**. Functions, overloading, pointer, reference, IO, conditional and control statements.
- **Android App Development**. Activity, Layout, Fragment.

MAY 2022 – AUG 2022   **TIJUANA BC, MEXICO**

SOFTWARE DEVELOPER, SAMSUNG ELECTRONICS

Skills: ReactJS, JavaScript, Tizen, C++, Design Patterns, QA Software testing, Perforce (version control).

- Developed and solved code issues for web-based TV apps. Written in JavaScript/React for the Tizen OS.
- Contributed to the development of a feature launched on 2023 Samsung TVs. Using C++ by compiling code on a dedicated Linux server to build RPMs for installation. Interfaced with the Factory design pattern and $1X10^9$ lines of code.

AUG 2021 – JAN 2022   **TIJUANA BC, MEXICO**

INFORMATION TECHNOLOGY INTERN, NORMA GROUP

Skills: TCP/IP & OSI, UDP, Client-Server, VLAN, domains, HTTP, DNS, Ping, ARP, subnet mask, PDU.

- Imaged computers via network.
- Troubleshooted printers, printer servers, internetwork issues and switches.

EXECUTIVE PROFILE

Fundamentals | Algorithms • Data Structures • OOP • Dependency Injection • Design Patterns
Tech stack |Express • ReactJS • Spring Boot • PostgreSQL • mySQL • Maven • Bootstrap • NodeJS • Tizen • ASP.NET
Computer Languages | C++ • Java • Python • JSON • HTML • JavaScript • CSS • SQL • XML • C#
Tools | VS Code • IntelliJ • Vim • Postman • Eclipse • Visual Studio • UNIX Bash • Git • Perforce • Docker • AWS
Workflow | Fail fast, fail often • Software Development Lifecycle • Test Driven Development • Unit Testing
Languages | English (Native speaker) • Spanish (Native speaker) • Chinese (intermediate)

EDUCATION

SEP 2022 – MAY 2024   **MARCONI CAMPUS, SYDNEY NS**

IT PROGRAMMING DIPLOMA, NOVA SCOTIA COMMUNITY COLLEGE

- Object-Oriented Programming – Java (Polymorphism, encapsulation, inheritance)
- Client-side programming – JS (axios, ajax)
- C (Memory allocation, garbage collection, buffer, stream, data structures)

PORTFOLIO PROJECTS

DEC 2023   **GLOBAL TEAM**

FULL-STACK, MAP CHAT

Built a social media app that enables users to connect easily with like-minded people.

- Java Spring Boot: Data JPA, Lombok, mySQL.
- Built Front-End with ReactJS. Mapped routes using react-router. Plenty use of hooks (UseState • UseEffect • UseContext, useRef) for managing state and rendering properly
- Added real-time messaging through SocketIO (WebSockets).
- Created CI/CD pipeline with Github Actions to AWS.
- GUI built with styled components + MUI material + Figma + Rendition.
- Connected to google maps API for showing message bubbles on a map.
- Used multiple AWS services to run the app in the cloud: Used LAMBDA to trigger endpoints that turn off EC2 instances to minimize cost, ECS (Elastic Container Service) to run the app in a container on an EC2 instance, IAM (Identity Access Management) to allow and restrict permissions to different components such as the task definition for the service that runs on the ECS cluster.

ENE 2022   **TIJUANA BC, MEXICO**
SORTING ALGORITHMS VISUALIZER | FRONT-END, TJ
Interactive Sorting Algorithms Visualizer, bootstrapped & React.js. Done in one week with no prior knowledge on React nor JavaScript.

- Algorithms include Merge, Selection, Bubble, Heap, Quick and Insertion sort.

ACTIVITIES AND LEADERSHIP

Interests | Cycling, fishing, mechatronics, and AI.
Highlights |**Accessibility volunteer at Samsung Accessibility • 1st place in Protocase Hackathon 2023 • 1st place in 9th annual event Challenge Nova Scotia 2023**