

PARSA DERAKHSHAN

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EDUCATION

Algonquin College

Advance diploma of Computer Engineering Technology, co-op, 2023

May 2020 – May 2023

- Graduated with Honours
- GPA 3.7/4.00; Dean's Honour List (2020 – 2023)
- Relevant courses: Application Programming, Compilers, Data Structures, Web Programming, Database design, Network Engineering, Object-Oriented Programming, Numerical Computing.

TECHNICAL SKILLS

Languages:

C#, Vue Js, Python (pandas, NumPy, openpyxl), R(ggplot2), Java, Node.js, C/C++, JavaScript, SQL, PHP, CSS, HTML.

Technologies/Frameworks/Platforms/Patterns:

REST API, CQRS, Azure DevOps, .NET, Blazor, Razor, GitBash, Bootstrap, Jupyter Notebook, Cisco Packet Tracer, Wireshark, VMware, MySQL, Microsoft Visual Studios, Ubuntu Linux, Excel, NetBeans, Bash, Unix Shell and R studio.

WORK EXPERIENCE

**Fisheries and Oceans Canada (DFO) /
Canadian Coast Guard (CCG) – (Ottawa, Ontario)**

January 2022– Present

Full Stack Programmer Analyst

- Participated in the development, testing, and improvement of critical applications, including Pay Issue Portal (PIP), iPlan, National Training Tracking Tool (NTTT), Project Management Information System (PMIS), and Activity Based Budgeting (ABB). These applications support Coast Guard services, encompassing Marine Services, Human Resources, Finance, and Activity, ensuring seamless functionality and a high-quality user experience through expert implementation and design.
- Acquired extensive and recent experience in Web application development, utilizing Java, JavaScript, Vue.js, Node.js, .NET/C#, Python, and PHP. Proficient in database management with SQL, PL/SQL, and T-SQL.
- Successfully practiced Agile methodologies (Scrum, Scrumban, or Kanban) to manage user stories, product backlogs, and client requirements, providing technical support, coaching, and advice to ensure successful project delivery and client satisfaction.
- Automated tasks and improved deployment workflows using PowerShell scripts within Azure pipelines.

- Demonstrated expertise in Structured Query Language (SQL) and Procedural Structured Query Language (PL/SQL) programming in the Oracle environment.
- Acquired extensive knowledge of client/server and web-based applications using C# and ASP.Net, with in-depth expertise in REST API. Proficiently contributed to the development, testing, and improvement of critical applications.
- Proficient in writing technical documents and adhering to IT best practices and patterns, including familiarity with the CQRS design pattern and in-depth topics like dependency injection in .NET systems.

❖ **Canadian Food Inspection Agency (CFIA) – Internship (Ottawa, Ontario)** *May 2021 – December 2021*

Data Analyst

- Developed and tested python script in order to automate data updating every year.
- Developed data visualization(PowerBI) and analytics tools for use by researchers.
- Contributed to updating and developing the Comparative Risk Model (CRM) to help the agency make risk-informed decisions.
- Collected and Analyzed data in collaboration with other government agencies including StatsCan resulting in providing accurate and valuable data in addition to gaining contacts for our branch.
- Researched and tested the agency's algorithm and blueprint in addition to explaining the fundamentals of risk models to other colleagues.

❖ **Sqogroup.ca** *December 2019 – May 2020*

Website Developer

- Development of the initial design in coordination with the client requirements.
- Recording changes and fixes to the website by using Git to keep track of contributions and organization purposes.
- Maintaining SQO website and database.
- Generating and Revising webpages.

PROJECTS

- Developed a Telegram chat Analysis using Python using libraries such as: pandas, NumPy, seaborn and matplotlib.pyplot.
- Developed a fully functional picross(nonogram) game with Java using Swing library with a modern GUI in addition to a client/server portion to allow different players to play.
- Developed a College Management System in Java and analyzed a problem description and created Object-Oriented (OO) class specifications in addition to adding multiple data structures to make it as efficient as possible.
- Implemented a Flight database system using Data Definition Language (DDL) to add, modify and delete database objects, i.e., tables, views, indexes in addition to writing, debugging and executing SQL statements.
- Developed a sample art gallery website with a Shopping option, written in CSS, HTML and PHP.
- Developed a game of poker with betting option written in C language with focusing on proper memory management.