Simon Proulx, IT Consultant

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Targeting a Full-Time or Contract Software Developer position

Highlights of Qualification

- **Object-Oriented** programmer with a thorough understanding of Design Patterns & Best Practices (**Java, C++, Python, C#, Javascript/TS**)
- **Java/Kotlin API** Development
- Unit Testing (**JUnit, unittest, gtest**)

- **React, Node.js and Flutter** front-end development
- Experience with sql/nosql (query optimization in **postgreSQL**, DBMS development, **AJAX**, **MongoDB** OLAP/OLTP processing)

Soft Skills

- **Bilingual**, both written and spoken, French and English
- **Enthusiastic Programmer**, fast learner
- Stellar **problem-solving skills**, astute logician

- Familiar with **Agile/Scrum Methodologies**
- Great **communication skills**
- **Passion** for Documentation & Technical Writing

Education & Status

- ❖ **University of Ottawa - Graduated**   **2018-2023**
  - ❖ BSc with Honors in Computer Science, Data Science Option
- ❖ **Secret Clearance (Level 2)**   **Exp. 2034**

Relevant Courses & Languages/Design

Honors Project, 8 months
- Designed a Flutter/Python network packet protocol using UDP multicast/HTTP from ground-up (Java API plug-in)
- Semester-long group project dedicated to YOLOv5-based object detection
- Cross-platform app (IOS and Android versions)

Technologies: Flutter/Dart, Python/YOLOv5/OpenCV, plug-in development

Introduction to A.I. and Data Science, 6 months
- Development of neural network systems using Tensorflow, pandas and sklearn in Python
- Studied correlations within big datasets provided by Kaggle.com
- Conceptual design of data mart, development of OLAP queries and data staging

Technologies: Jupyter Notebook, Tensorflow, Scikit-Learn, PostgreSQL

Internet Info. Retrieval, 8 months
- Development of a full fledge information retrieval system using a text-based model, a ranker and indexer
- Understanding of optimizations, efficiency measurements and advancements within the information retrieval industry

Technologies: Trec_Eval, Pytorch Keras

Databases And World Wide Web, 12 months
- Development and release of full fledge PHP website, including a PostgreSQL backend
- Implementation of C-based query optimizations, DBMS architecture modifications of PostgreSQL
- Git system set up for the group final project

Technologies: C, PostgreSQL, Javascript, PHP, HTML, AJAX, SQL, Ampps

Programming Paradigms, 8 months
- Delved into a plethora of languages and paradigms
- Study of programming disciplines in the form of patterns

Technologies: Java, Go, Prolog, Scheme (Lisp), R

Experience

Web Applications Designer   2023-ongoing
Bonkers Builders, Ottawa
- Creating from-the-ground up, industry-grade company website
- Handle customer requirements, provide an easy-to-manage product

Technologies: JS, AJAX, Wordpress, mySQL, Xampp

Data Entry and Software Tester   2021
Health Canada, Ottawa - Contract
- Inputted medical device information into the databases
- Helped troubleshoot and testing the new database entry software

Customer Service Clerk   2019
BestBuy, Kanata - Seasonal Worker
- Attended customers with technical concerns
- Software support
- Recommended software and hardware components

Hobbies & Interests

Part-Time Writer - I love writing Science Fiction, I have written plays, essays and film scripts.

Aspiring Video Game Developer - I spent most of my late highschool developing C#/Unity games.

IT Hardware Computer Wizard - Previously a part-time computer builder and seller.

Fitness Trainee - Long time gym goer, striving for a healthy physique every day.