Dominic Trottier

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Innovative Software Developer offering 4 years experience developing software across all stages of the software development lifecycle — from deriving user requirements to long term product support of reliable, high-performance applications.

Capable of creating pragmatic software solutions that balance the need for fulfilling user requirements, meeting product delivery deadlines, and producing high quality, well tested code.

Known for excellent troubleshooting skills — able to analyze code to find defects and optimizations, while considering their impact across entire software systems.

Education

BSc. In Computer Engineering   September 2012 – April 2017
University of Alberta
- Graduated with distinction
- GPA: 3.5

Work Experience

Intermediate Software Developer   May 2017 – Present
SED Systems, Edmonton, AB

- Interacted with clients to derive requirements and design a software solution based on their needs.
- Led a software development team to deliver an on-schedule project worth ~$500000.
- Improved database access time by ~80% resulting in fulfilment of contractual obligations.
- Played an active role in the design and development of a high-performance data-driven satellite monitoring and reporting system.
- Provided customer support in the form of software deployments, troubleshooting, bug fixes, and assistance with software configuration in a production environment.
- Championed automated testing and system reliability by advocating for improved unit testing and encouraging a culture around continuous integration and deployment.

Junior Computer Engineering Student   May 2016 – December 2016
Xanantec Technologies, Edmonton, AB
- Maintained existing .NET database-oriented applications and provided direct support to users.
- Created software using .NET to interface with embedded controllers and PLCs.
- Developed embedded motor controller software and custom bootloader to meet hardware constraints.
- Implemented testing framework to increase code reliability.
- Participated in client meetings to develop requirements.
- Wrote and reviewed software documentation.

Cyber Security Co-op   January 2015 – August 2015
General Dynamics Canada, Calgary, AB

- Derived and documented user requirements based on use cases and user feedback.
- Designed and developed a GUI based program to interact with complex databases and provided custom utilities for filtering and displaying entries.
- Created a program to manage the deployment and transfer of windows updates using Windows Server Update Services along with the transfer of large amounts of metadata.
- Implemented robust data persistence in multiple programs.
- Presented programs to clients and provided full user documentation.
- Participated in a several peer reviews for documentation, as both the author and the reviewer.

Tools and Technologies

Languages: Java, C#, Kotlin, Python, C++, F#
Data Sources: PostgreSQL, MongoDB, SQL Server
Web: ASP.NET, gRPC, protobuf, REST, JWT, Jetty, Netty, OAuth2
Technologies: .NET, LINQ, JUnit, NUnit, Git, Gradle, JavaFX, WPF, ReactiveX, Android

Projects

LightBot
ASP.NET Core web application providing automated control of IoT light switches on a local network.

SaltyBid
2D fighting game created in Unity with a heavy emphasis on an asynchronous, event-driven design.

BrainDump
ASP.NET Core web application backend allowing users to create and share posts using OAuth2.

Clipboard++
WPF desktop application providing a history of clipboard entries accessible through a GUI or built-in keyboard shortcuts.