

# 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**

University of Alberta

September 2012 – April 2017

- Graduated with distinction
- GPA: 3.5

## Work Experience

### **Intermediate Software Developer**

SED Systems, Edmonton, AB

May 2017 – Present

- 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**

Xanantec Technologies, Edmonton, AB

May 2016 – December 2016

- 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.

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.