

Keefer T. Davies

4B Software Engineering
20382119

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SKILLS SUMMARY

- Dedicated team worker with an excellent work ethic and positive attitude
- Excellent background in object oriented programming and design
- Strong understanding of software architecture and design patterns
- Experience with the Software Development Life Cycle (SDLC) and Agile Methodologies (SCRUM)
- Exceptional analytical, time management, collaboration and problem-solving skills

COMPUTER PROFICIENCY

Languages: Proficient in C/C++, C# and Java. Working knowledge of PHP, Python, PowerShell and SQL.
Systems: Windows 7/8, OS X, Debian Linux, VMware ESX, Amazon EC2, IBM MVS (Multiple Virtual Storage) Mainframe
Software: Visual Studio, Eclipse, Xcode, Git, Subversion, Jenkins, VersionOne, VMware vSphere, VMware Workstation, Code Collaborator, Bugzilla, WinDbg
Other: Apache, JUnit, AspectJ, Log4J, HTML, CSS, L^AT_EX

WORK EXPERIENCE

FileMaker Software Engineer, Apple Inc., Ottawa, ON, *September – December 2014*

- Resolved production issues in FileMaker Pro 13, the top selling easy-to-use database software.
- Practiced cross-platform development, addressing numerous bugs on Windows and OS X. Efforts were focused on addressing bugs in Script Workspace, the flagship feature in FileMaker Pro 14 (2015 release).
- Re-engineered a custom text wrapping algorithm for the new Script Workspace developed with the Windows Presentation Foundation (WPF). Before this new implementation the Script Workspace did not correctly render locales other than English.
- Performed Root Cause Analysis (RCA) using Visual Studio to analyze software crash dumps.
- Proposed the use of SmartBear's Code Collaborator software to improve on the current code review process. Setup a demo server and presented a live demo to local management and engineers.
- Effectively communicated with fellow engineers locally and remotely. The Ottawa office is a small remote engineering office, most other FileMaker engineers are based out of California.

Technologies: C/C++, WPF/C#, Cocoa/Objective-C, FileMaker Pro Advanced

Software Development Engineer, McAfee Inc., Waterloo, ON, *May – August 2013 & January – April 2014*

- Completed several research projects in the areas of custom user interface (UI) engines, telemetry and analytics.
- Created a PHP framework to simulate McAfee telemetry reporting to Google Analytics and Google BigQuery.
- Resolved production issues in McAfee's Windows applications used by millions of customers.
- Managed McAfee's Jenkins Continuous Integration (CI) system, taking it from a proof of concept to a production level system with the help of one other co-op student.
- Created a custom Jenkins plugin that seeds build machines with the information required to perform automatic builds and deployment of McAfee products to internal test servers.
- Created automation tools to facilitate the automatic build process for all modules in the McAfee Total Protection suite.
- Implemented an automation framework with PHP and Jenkins to automate testing of the latest McAfee Stinger builds when integrated with McAfee's Windows application. This project greatly minimized manual effort and increased release frequency of the latest McAfee Stinger application.

Technologies: C/C++, C#, Java, PowerShell, Python, PHP, SQL, SQLite, WinDbg, Jenkins and Jelly scripts

Software Developer, Research In Motion Limited, Waterloo, ON, *September – December 2012*

- Designed, developed and maintained automation testing frameworks, tests, systems and tools for BlackBerry® Enterprise Software.
- Analyzed and debugged automated test suites for BlackBerry 10, identifying root causes of failure and taking appropriate corrective actions.
- Implemented logging functionality for test suites with Apache Log4J and AspectJ.

Technologies: C/C++, C#, Java, Python, Jenkins, Gerrit, QNX Momentics IDE, and Spring Tool Suite

IT Solutions Developer, TD Bank Group, London, ON, *May – August 2011 & January – April 2012*

- Coded, debugged and tested COBOL, JCL and SAS code on an IBM MVS Mainframe.
- Developed Java applications to automate tasks performed by the team on a daily, monthly and yearly basis.
- Supported applications in production, including identifying the root cause of problems and identifying options to achieve a resolution in a timely and effective manner.

Technologies: IBM MVS Mainframe, DB2, COBOL, JCL, SAS and Java

EDUCATION

University of Waterloo (Waterloo, ON)

Bachelor of Software Engineering, projected completion 2015

School Projects:

- ARM Based Operating System in C, Operating Systems (January – April 2013)
- Compiler for Subset of C++, Foundations of Sequential Programs (September – December 2011)

London Central Secondary School (London, ON)

Ontario High School Diploma, University Level, 2006-2010

AWARDS AND SCHOLARSHIPS

- *Sandford Fleming Foundation Award*, University of Waterloo, Waterloo, ON, December 2012 (for co-op work report)
- *Merit Scholarship*, University of Waterloo, Waterloo, ON, August 2010 (for high school admission average)
- *Ontario Scholar Certificate*, London Central Secondary School, London, ON, June 2010
- *Ontario Semifinalist*, ECOO Programming Competition, London, ON, April 2010
- *Certificate of Excellence*, University of Toronto, Toronto, ON, April 2009 (finalist in showCaSe: A Computer Science Fair 2009)
- *Ontario Semifinalist*, ECOO Programming Competition, London, ON, April 2009

References available upon request