

Keefer T. Davies

Software Engineer

272 Activa Avenue, Kitchener, Ontario, Canada N2E 3T9

keefer.davies@gmail.com

519-636-5625

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, communication and problem-solving skills
- Strong leadership skills: approachable, loyal, organized, empathetic, collaborative and adaptable

COMPUTER PROFICIENCY

Languages: Proficient in C/C++. Working knowledge of GoLang, C#, Java, JavaScript, Python, PowerShell and SQL.

Systems: Windows 10, OS X, Debian Linux, Amazon Web Services (AWS), Kubernetes, Docker

Software: Visual Studio, Xcode, Git, Subversion, Jenkins, Atlassian Suite, Databricks, Google Analytics, Intel VTune, HyperV, Code Collaborator, WinDbg

Other: Universal Windows Platform (UWP), Google Test, Google Mock, Google Benchmark, ASP .NET Core, ReactJS, HTML, CSS, \LaTeX

WORK EXPERIENCE

Lead Software Engineer, McAfee LLC, Waterloo, ON, *March 2019 – current*

- Lead development of a brand new product with very aggressive timelines now serving over 80 million devices.
- Responsible for designing and building the full software stack (native UWP app, single page web application, authentication/api server).
- Participated in all aspects of the SDLC, from product requirement definition to product deployment.
- Worked closely with all members of the development team to identify areas of expertise.
- Carefully planned and delegated work to ensure that aggressive timelines could be met.
- Coached a team through technical problems; solicited and provided constructive criticism as required.
- Carefully defined interface boundaries and documented data contracts enabling concurrent development.
- Performed regular check-ins with members of the development team to build morale and prevent issues before they arise.
- Lead incremental live demonstrations of product functionality for key business partners.
- Worked closely with business partners and engineers to ensure the product was meeting contractual obligations and policy.
- Seamlessly worked with global cross-functional teams in 6 timezones (product management, customer experience design, localization, security, dev ops, architecture).
- Active member of the McAfee Waterloo innovation group responsible for fast prototyping of new Windows and Cloud based technologies to be used in current and future McAfee products.
- Designed and prototyped a framework for capturing user attribution data through custom campaigns.
- Participated in weekly business syncs with product management, legal, finance, architecture and engineering to review business contracts and discuss technical feasibility.

Technologies: C++, C#, JavaScript, Python, ASP .NET Core, ReactJS

Software Engineer, McAfee LLC, Waterloo, ON, *July 2015 – March 2019*

- Developed, maintained, reviewed and tested high-quality modern C++ code for McAfee's Windows flagship product (McAfee Live Safe).
- Designed and developed a robust, plug-and-play message bus and module hosting framework to re-architect McAfee's core Windows products.
- Developed a modern user interface (UI) framework that enabled a revolutionary HTML5 based user interface for McAfee's flagship product. The framework is based on the Chromium Embedded Framework and connects seamlessly with the message bus.
- Maintained and supported a proprietary analytics stack developed to provide comprehensive real user data reporting for the McAfee True Key product. Gaining exposure to GoLang, Kubernetes, Docker and Amazon Web Services.
- Developed a discoverability and communication protocol that enables secure communication between UWP applications and Win32 desktop applications. *US Patent No. 10657246*
- Designed and implemented the underlying framework for McAfee Consumer's first persona-based suite of products (McAfee Gamer Security).

Technologies: C/C++, C#, GoLang, JavaScript, PowerShell, Python, UWP, VTune, AWS, Kubernetes

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

- Resolved production issues in FileMaker Pro 13, a 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).

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 UI engines, telemetry and analytics.
- Managed McAfee's Jenkins Continuous Integration (CI) system, taking it from a proof of concept to a production level system.

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 took 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

EDUCATION

University of Waterloo (Waterloo, ON) Bachelor of Software Engineering, 2010-2015

London Central Secondary School (London, ON) Ontario High School Diploma, University Level, 2006-2010

AWARDS, SCHOLARSHIPS AND PATENTS

- *Authenticated Discoverability of Universal Windows Applications to WIN32 Desktop Applications*, McAfee LLC, Waterloo, ON, May 2020 (US Patent No. 10657246)
- *Sandford Fleming Foundation Award*, University of Waterloo, Waterloo, ON, December 2012 (best technical writing)
- *Merit Scholarship*, University of Waterloo, Waterloo, ON, August 2010 (admission average)

References available upon request