

GILLES KHOUZAM

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I am a professional Software Engineer and Manager with over 25 years of experience shipping high quality software and developing various size teams. I am both a highly technical individual and a strong leader with a very deep customer focus. I am looking for an opportunity to take my skills to a challenging environment where I can strive and share my experience.

EXPERIENCE

JULY 2022 – JUNE 2025

SOFTWARE ENGINEER, META

Member of Meta's Video Infrastructure Team responsible for developing a common playback infrastructure across all the Meta applications, focused on Android Playback.

Major projects impact:

Upgrade the WhatsApp playback infrastructure to common player shared by Facebook, Instagram, Messenger and other Meta apps while maintaining consistent performance and engagement metrics.

Upgrade the core player infrastructure for the Android suite of applications in-place bringing in 5 years worth of changes while maintaining stability and functionality and performance, including contributions backs to Google's ExoPlayer.

Implement a new OpenGL effects infrastructure for playback, allowing for an improved and customizable customer experience.

Defined and taught a Video Introduction course for new employees.

MARCH 2019 – JUNE 2022

SENIOR SOFTWARE ENGINEER, AMAZON PRIME VIDEO

Software Engineer for Prime Video reporting to the playback director, taking the Prime Video Experience to the next level.

Major projects impact:

Provide the direction of the future of the playback technology for Prime Video across all supported platforms (living room, web, iOS, Android).

Define the playback architecture for new embedded devices platforms, including defining requirements to enable full featured 3rd party video applications.

Provide guidance and architecture feedback for low-latency architecture protocol, including requirements for integration with living room devices.

Lead the implementation of a fully automated test framework for living room devices, reducing the burden on partners.

JANUARY 2014 – FEBRUARY 2019

PRINCIPAL ENGINEERING LEAD, MICROSOFT CORPORATION

Engineering lead, driving multiple open source projects simultaneously as well as internal Windows components with a constant focus on developers. Drove a team ranging from 5 to 12 developers, providing leadership, technical guidance and active participation in the various projects. Drove a change of culture with regards to open-source inside the Windows organization, helping promote and embrace the open-source community.

Projects lead include:

2017 – 2019 *Adaptive Cards* (<https://github.com/microsoft/AdaptiveCards>) a cross platform way to natively display card Information. Took over the project to implement a more rigorous development and test process to ship a high quality 1.0 release for Windows 10 (C++), .NET (C#), Android (Java), iOS (Objective-C) and Web (JavaScript) implementations.

Provided direction for the project, balancing customer requests, schedule and actively participating in the project's working group. Driving releases every 6 months both as an open-source project and as a native Windows component.

2015 – FEBRUARY 2019 *WinAppDriver* (<https://github.com/microsoft/WinAppDriver>) a UI Automation test framework for Windows Applications. Lead the project from its inception in 2015, providing technical leadership to the development team as well as feature implementation and bug fixes.

2015 – 2017 *Windows Console* (<https://github.com/microsoft/console>). Provided technical leadership for Windows console subsystem. Advanced the project forward to highly improve compatibility with Unix based systems and to support the Windows subsystem for Linux. Drove the consolidation of two diverged implementations for different Windows platforms to a single shared codebase. Guided the team through a major modernization of the codebase moving while keeping the full compatibility and the high reliability of the project.

2016 – 2017 *Windows Subsystem for Linux* (<https://github.com/microsoft/wsl>) Leading the team responsible for the developer experience for WSL, enabling users to run Linux binaries natively on Windows. Designed the operating support to install multiple Linux distribution and be able to run them side-by-side.

2015 – 2019 *FFmpegInterop* (<https://github.com/microsoft/FFmpegInterop>). Drove the design and implementation of the project, connecting FFmpeg, a C++ open-source media library, to the Windows media pipeline and easily enable media applications to support many more audio and video formats not directly supported by Windows. Supporting the community with issues and feature implementation.

2015 – 2019 *Microsoft's port of OpenSSL for WinRT* (<https://github.com/microsoft/openssl>) Drove the Microsoft fork of OpenSSL, a C++ open-source cryptography library, to support Windows Store and Windows Phone

applications. Supporting the community and updates to both the library and the Windows platform.

2016 – 2017 *Windows Search Indexer* Lead the team for the 1703 and 1709 Windows releases. Provided technical leadership to implement multi-user support of search in virtual desktop environments, performance and battery-life improvements, full file-system search.

2014 – 2019 *Windows SDK for Facebook* (<https://github.com/microsoft/winsdkfb>) Lead the open-source project to develop a native C++ SDK for use within Windows Store and Windows Phone applications to connect to Facebook and enable Facebook interactions for developers.

2014 – 2019 *CMake* (<https://github.com/kitware/cmake>). Added support to develop Windows Store and Windows Phone applications through CMake, a native C++ framework to produce multi-platform build projects. Provided expertise to the project on Windows, solving customers issues. Worked closely with the Visual Studio team to develop native CMake support within Visual Studio.

NOVEMBER 2012 – JANUARY 2014

SENIOR DEVELOPMENT LEAD, MICROSOFT CORPORATION

As the Media Engineering Lead for the Windows Phone Developer platform, I was responsible for increasing the developer engagement on the platform and enable new and competitive scenarios for applications as well as providing support for top tier customers. The primary achievements of my team were the delivery of new Windows Media Editing APIs, enabling developers to easily add video manipulations to their applications as well as providing built-in support for the HLS media format.

OCTOBER 2009 – NOVEMBER 2012

SENIOR SOFTWARE ENGINEER, MICROSOFT CORPORATION

As a Senior Software Engineer in the Windows Phone team, I focused my work on enabling the developer platform for Windows Phone and helping critical customers with deep technical issues. The main areas of focus were performance, media and global Silverlight architecture for Windows Phone.

JULY 2006 – OCTOBER 2009

SENIOR SOFTWARE DEVELOPMENT LEAD, MICROSOFT CORPORATION

As the Silverlight Media Development Lead, I was responsible for all media features of the platform and integration of the different media components within the platform. The work included adapting the Media Foundation pipeline to run within Silverlight, adding support for Windows Media Services, the development of the MediaStreamSource and the Smooth Streaming protocol, integration of the PlayReady DRM platform as well supporting and on-boarding our top customers such as Netflix and the 2008 Summer Olympics on NBC.

MARCH 2000 – JULY 2006

SOFTWARE DESIGN ENGINEER, MICROSOFT CORPORATION

As a Software engineer in Windows focusing on the graphics platform, I worked on GDIPlus, WPF, Remote Desktop.

JULY 1997 – FEBRUARY 2000

SOFTWARE DESIGN ENGINEER, SOFTIMAGE CORPORATION

As a software design engineer, I worked on the Softimage|DS video editing platform, developing image based video-effects as well as doing assembly (MMX,SIMD) optimizations for real-time rendering in software.

EDUCATION

JANUARY 1996 – JUNE 1997

GRADUATE STUDIES IN COMPUTER GRAPHICS, UNIVERSITY OF WATERLOO

Studies in the Masters of Mathematics program within the Computer Science Department.

SEPTEMBER 1992 – DECEMBER 1995

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MCGILL UNIVERSITY

Graduated with First Class Honours, Dean's List 1993.

PERSONAL ACTIVITIES

ISEEVM FOR YOUMAIL: Visual Voicemail application for Windows Phone and Windows 10. Providing the best visual voicemail experience on any Windows Device.

JORDYN PARK TREASURER: Treasurer for the Jordyn Park Homeowners Association, a community of 79 homes.