

Matt Fisher

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PROFESSIONAL EXPERIENCE

Vimeo, Lead Engineer Video Playback

San Francisco, CA | Oct 2016 – Present

- Oversee and manage all frontend, backend and data engineering related to web and mobile web video playback.
- Developed customized playback QoE metrics pipelines to allocate, store, utilize and visualize video playback metrics.
- Developed new live playback support solutions for HLS and DASH delivery.
- Engineered new adaptive bitrate switching algorithms for live and VOD playback focusing on providing optimal system selection for all playback circumstances.
- Responsible for all playback engineering recruiting and onboarding.
- Contributed to public outreach via public speaking engagements.

Twitch, Video Playback Engineer

San Francisco, CA | September 2013 – May 2016

- First full-time engineer working strictly on video playback development.
- Maintained web video player applications for both Justin.tv, as well as Twitch.tv.
- Responsible for all live, on demand, and video creation playback on the web and mobile web.
- Transitioned web based playback protocol support from FLV to HLS.
- Transitioned web player applications from Adobe Flash runtime to pure HTML5 user interface and playback via Media Source Extensions and native HLS playback (muxing).
- Developed advertisement playback solutions within web video player.
- Responsible for implementing and maintaining a customized playback event tracking system.
- Coordinated with many internal teams including Data Science, Advertisement, Video Backend, and Web Engineering to ensure the stability and effectiveness of player updates.
- Contributed to public outreach via public speaking engagements.
- Credited as co-inventor on patent application.

Jam3, Senior Developer

Toronto, ON | January 2011 – September 2013

- Development lead on many internal projects using a wide spectrum of technology and development platforms (HTML5, Flash, AIR, PHP, MySQL, Python, Arduino, 3D Printing).
- Responsible for leading and mentoring a team of junior and intermediate developers.
- Lead system architect on development version control upgrade. Moved entire existing codebase from SVN to GIT. Trained all internal developers on GIT usage.
- Integrated new custom file servers for employee usage. Systems developed on customized RAID 10 configurations for disk redundancy and speed.
- Developed custom automatic backups via encrypted connection to off-site host.
- Implemented office transparent LAN networking to a local data center.
- Obtained, configured and implemented new enterprise level firewall systems for office security.
- Created and managed new secure SSL VPN office network configuration, allowing employees to easily connect to the office over a secure encrypted connection.

marblemedia, Senior Interactive Developer

Toronto, ON | March 2010 – January 2011

- Lead developer on all interactive projects, responsible for managing internal and external development teams to complete projects on time and to specification.
- Developed marblemedia's and Teletoon's first multiplayer online game.
- Managed deployment of projects and their related server side assets and services.

A51 Integrated, Web Application Developer/Systems Administrator

Toronto, ON | May 2008 – February 2010

- Served as primary architect on the internal server structure; configured servers from a Windows to Linux server environment built on VMWare ESXi Hypervisors.
- Developed, and contributed to the development of, a number of websites and applications.
- Published WhitePaper covering shared Java Runtime in clusters using SmarFoxServer, a MMO server for creating multiplayer games ("Clustering SmartFoxServer using Terracotta").
- Set-up office POSTFIX and Dovecot email servers enabling better retention of email data.

marblemedia, Interactive Developer

Toronto, ON | May 2006 – April 2008

- Developed, and contributed to the development of, a number of award-winning websites.
- Created a customized geolocation PHP MySQL API.

MP Russo & Associates, Interactive Developer/Systems Administrator

Clinton, ON | July 2003 – August 2004

TEACHING EXPERIENCE

Centennial College, Program Advisory Committee | 2012 – 2013

University of Toronto, Professor | New Media – Digital Fundamentals | 2011

Centennial College, Professor | Interactive Digital Media | 2010 - 2011

PUBLICATIONS

HTML5 for Flash Developers, Packt Publishing

Paperback: 350 pages | **Release Date:** August 2013

ISBN: 1849693323 **ISBN 13:** 9781849693325

PUBLIC SPEAKING

Streaming Media

- Metrics Matter: Using QoE To Make Viewers Happier | New York, NY | May 2017

FITC

- "Live Video in a Modern Web Environment" | Toronto, ON | April 2015
- "Forget Music, Download an Assault Rifle" | Toronto, ON | April 2013
- "Hey Ellie, what are you?" | Toronto, ON | April 2012
- Workshop: "The Ins and Outs of jQuery Mobile" | Toronto, ON | April 2012
- "Heating Homes with Distributed Computing" | Amsterdam, NL | February 2012
- "Getting Acquainted with jQuery" | Amsterdam, NL | February 2012
- Workshop: "The Ins and Outs of jQuery Mobile" | Amsterdam, NL | February 2012
- "Mobile Cross Browser Sexiness with jQuery Mobile" | Toronto, ON | November 2011
- Workshop: "The Ins and Outs of jQuery Mobile" | Toronto, ON | November 2011

Young Entrepreneurs Challenge 2013

- Student presentation on personal career path and inspirational work | Toronto, ON | January 2013

FlashInTO

- Integrating Mobile Interactivity to a Flash Based Website | Toronto, ON | February 2007
- Intelligent & Efficient Dynamic Web Programming | Toronto, ON | February 2006

SELECT AWARDS

- **Cannes Gold Lion 2012:** Charities, Public Health & Safety, Public Awareness Messages, National Film Board of Canada – Bear 71
- **FWA Site of the Year 2012:** National Film Board of Canada – Bear 71
- **One Show Interactive Silver Pencil 2012:** Bjork.com
- **Digi Awards 2011:** Canada's Top Development Team
- **Gold W3 Award 2011:** Best Children's Cross Platform Game, Skatoony.ca
- **Canadian New Media Awards 2010:** Developer of the Year (Nomination)
- **Global Mobile Awards 2007:** Best made for mobile video service, ShortsInMotion.com

EDUCATION

Humber College, Toronto, ON | Multimedia Design and Production Diploma | 2004 - 2007

