

I am a passionate technologist with a background in web technology and a focus on security. I build tools and utilities to help developers drive the web forward.

## WORK HISTORY

- Jun '18-Present Principal Program Manager for the Edge Web Platform; Microsoft
- Lead teams to advance the web platform
  - Architect and implement features to improve networking, privacy, security, and compatibility
  - Unblock Edge deployments with guidance, workarounds, and fixes
- Jan '16-Jun '18 Senior Software Engineer for Google Chrome; Google
- Chromium Committer; Chrome Security Enamel team member
  - Helped [bring HTTPS](#) to all sites through evangelism, feature development, and bug fixing
- Oct '12-Dec '15 Product Manager / Principal .NET Developer for Fiddler Web Debugger; Telerik
- Designed, developed, documented, and evangelized the Fiddler Web Debugger and FiddlerCore
- Nov '10-Oct '12 Senior Program Manager Lead for Internet Explorer Fundamentals; Microsoft Corporation
- Led a team of four Program Managers to deliver on IE's Security, Privacy, Reliability, Telemetry, Extensibility, and Process Model features
  - Worked with Windows 8 Platform and Office teams to build major new application platforms
  - Designed and developed improvements for WinINET [caching logic](#) to improve performance and standards-compliance
  - Wrote functional specifications, blog posts, vision documents and presentations
- Oct '07-Nov '10 Security Program Manager for Internet Explorer; Microsoft Corporation
- Developed and drove the security strategy and feature set for Internet Explorer
  - Represented IE Security for Microsoft at conferences, in working groups, and on the IEBlog
- Mar '07-Oct '07 Program Manager for Internet Explorer Developer Experience; Microsoft Corporation
- Helped ensure PM specs supported IE Developer platform vision
  - Worked with Internet Explorer's Developer Experience team to design and develop a secure cross-domain solution for AJAX
- Nov '04-Mar '07 Program Manager for Internet Explorer Networking & Trust; Microsoft Corporation
- PM owner for IE Networking team; led a team of 6 developers and 12 testers to successfully deliver Networking and Zones components for Internet Explorer 7
  - Designed and spec'd IE7 support for International Domain Names, CURI, Enhanced Validation SSL certificates, and HTTPS user-experience
  - Developed, documented, maintained, and evangelized toolset (Fiddler, ZoneView, Meddler, NetCheck, TLSTest, etc) to improve developer, tester, and customer experience
  - Triaged product and SE bugs; resolved 800+ bugs; opened 150+ bugs as a self-hoster
- June '01-Oct '04 Program Manager for Microsoft Office Online; Microsoft Corporation
- Delivered tools and expertise to optimize web performance (saved >\$13,000/month on bandwidth)
  - Owned Templates, ClipArt, and Deployment Center subwebs
  - Developed content programming, security testing, and other tools
  - Area owner for security, privacy, and front-end performance
  - Owned Office Clip Organizer client application, Office client-server communication
- June '98-Present Developer, Bayden Systems ([www.bayden.com](http://www.bayden.com))
- Develop, support, and maintain popular freeware tools including SlickRun, IEToys, etc

## AWARDS

*Internet Explorer MVP, 2013-2017*

*Microsoft Engineering Excellence award for Fiddler Web Debugger, 2007*

*Office Security prize for penetration testing, 2001*

## SELECTED SPEAKING ENGAGEMENTS

Enigma 2020: [Browser Privacy - Opportunities and Tradeoffs](#)

DevReach 2017: HTTPS in 2017

O'Reilly Security 2016: Migrating to HTTPS

Velocity 2015: HTTPS in 2015

DevReach 2015: Fiddler in 2015

CodeMash 2015: Lucking In, HTTPS in 2015

Velocity 2014: Plenary Lightning Demo

CodeMash 2014: Fiddler

DevReach 2013: Debugging with Fiddler

DevSum 2012: Debugging with Fiddler

MiX 2010: Advanced Web Debugging with Fiddler

PDC 2009: Become a Web Debugging Virtuoso with Fiddler

Usenix 2009: Building Secure User-Agents

MiX 2009 Session: Building Secure Websites

RSA 2009 Theater Presentation: IE8 Security & Privacy

Microsoft MVP Summit: 2009, 2008, 2007

Yahoo Security Week Invited Speaker: 2009, 2008

Hack-In-The-Box 2008 Session: Engineering a Trustworthy Browser

FireStarter Session & Webcast: IE8 Security

Microsoft Malware Prevention Conference, 2008

Velocity Web Performance Conference, 2008

TechReady 2007: IE Security

TechEd 2007: The Windows RSS Platform

## TECHNICAL REVIEW ENGAGEMENTS

*How the Internet Really Works by Article19*

*High Performance Images by Colin Bendell, et al.*

*Bulletproof SSL and TLS by Ivan Ristić*

*Ultra-Fast ASP.NET 4.5 by Richard Kiessig*

*Pro IE8 and IE9 Development by Matthew Crowley*

*High Performance Web Sites by Steve Souders*

*Even Faster Web Sites by Steve Souders*

*Internet and World Wide Web: How To Program by Deitel & Deitel*

## WRITING ENGAGEMENTS

[Debugging with Fiddler](#) ISBN: 1475024487 (330 pages); 1<sup>st</sup> & 2<sup>nd</sup> Editions

<https://textslashplain.com> blog

See other writing at [ericlawrence.com/Eric/writings.asp](http://ericlawrence.com/Eric/writings.asp)

Book chapter in *Windows Developer Power Tools*

[CodeFocus Magazine](#)

Winter 2007 Paper on Browser Security Technology for Bill Gates' ThinkWeek

## EDUCATION

Bachelors of Science in Computer Science; University of Maryland at College Park

Maryland Distinguished Scholar, National Merit Scholar Finalist

Relevant Coursework: Software Engineering, Advanced topics in Java, Operating Systems, Organization of Programming Languages, Data Abstraction using C++, Human Computer Interaction

## **FORMAL LEADERSHIP**

- Acting Team Lead for Edge Pixels and Bytes teams
- Team Lead for Internet Explorer Fundamentals team
- Mentor/manager for three Microsoft Interns

## **TECHNICAL SKILLS**

- Web Technologies: HTTP, TLS, TCP/IP, HTML, JavaScript, browser Extensions
- Security: Analysis, threat modeling, penetration testing
- Languages: C#, C++, Delphi, JavaScript, C, Java
- User Interface design and analysis

## **OLDER WORK HISTORY**

- Sept '00-June '01 Student Consultant for Microsoft Corporation; College Park, MD  
Evangelized Microsoft development technologies to Universities. Hosted tech talks, designed and delivered presentations to large technical audiences.
- June '00-Aug '00 Program Manager Intern, Microsoft Corporation; Redmond, WA  
Designed and specified downloadable templates feature of SharePoint. Coordinated with developer and other product teams to implement the feature. Built template packager GUI application.
- Jan '00-May '00 Intern Web Developer, The Motley Fool; Alexandria, VA  
Developed Web-based Portfolio View Editor application using IIS, ASP 3.0, SQL, JavaScript, VB COM objects and DHTML. Participated in the design process and developed for cross-browser compatibility.
- June '99-Aug '99 Program Manager Intern, Microsoft Corporation; Redmond, WA  
Developed prototype web-collaboration applications using a v1 component of Microsoft Office 10 (later named SharePoint). Contributed to ongoing product design process and reported bugs as discovered. Designed Win32 client application using VB to manipulate custom XML schema via HTTP. Created and maintained browser compatibility specification and competitive analysis.
- July '98-Jan '99 Intern Web Developer, C.T.I.S. Incorporated; Rockville, MD  
Developed web applications using Microsoft FrontPage, ActiveX, Active Server Pages, and ADO. Converted a client's PowerPoint prototype into an Internet site. Designed animated GIFs and graphical elements using Adobe Photoshop and Microsoft Image Composer. Presentation design using Macromedia Director 7.
- June '97-June '98 Associate Programmer, DiGioia and Associates, Incorporated; Frederick, MD  
Designed and developed Windows applications in Delphi.
- June '94-June '96 Electronics Test Technician, EIT Incorporated; Sterling, VA.