Eric Lawrence

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I am a passionate technologist with a background in web technology and a focus on security. I build teams, tools, and utilities to help developers drive the web forward. I'm best-known as the creator of the Fiddler Web Debugger.

WORK HISTORY

Aug '24-Present — Principal Product Manager for Microsoft Defender
- Protection area expert for web protection, initial access prevention
- Working on Safe Deployment and the new Windows Endpoint Security platform
- Triage and analyze vulnerabilities across Windows, Edge, Office, etc.
- Provide subject matter expertise for security topics across Windows and Web

Jul '23-Aug '24 — Group Product Manager for Microsoft Defender Protection
- Led a team of product managers to deliver industry-leading protections via SmartScreen, ASR, Defender AV, and related technologies

Jul '22-Jul '23 — Principal Software Engineer for Web Defense; Microsoft
- Architected features to help prevent credential phishing and other web-based attacks
- Provided subject matter expertise for browsers and networking

Jun '18-Jul '22 — Principal Program Manager for the Edge Web Platform; Microsoft
- Led teams to advance the web platform
- Architected and implemented features to improve networking, privacy, security, and compatibility
- Unblocked Edge deployments with guidance, workarounds, and code fixes

Jan '16-Jun '18 — Senior Software Engineer for Google Chrome; Google
- Chromium Committer; Chrome Security Enamel team member
- Security Sheriff (triaging, fixing, and driving externally-reported vulnerabilities)
- 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
- 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
- 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
- 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
- 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

Jun '01-Oct '04   **Program Manager for Microsoft Office Online; Microsoft**
- 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

Jun '98-Present   **Developer, Bayden Systems (https://bayden.com)**
Develop, support, and maintain popular freeware tools including SlickRun, MezerTools, etc

AWARDS
Cloud Ecosystem Security Infinite Mindset Partnership award, 2023
E&D Leadership Team award for Edge OSS, 2019
Microsoft Most Valuable Professional, 2013-2017
Microsoft Engineering Excellence award for Fiddler Web Debugger, 2007
Office Security prize for penetration testing, 2001

SELECTED SPEAKING ENGAGEMENTS
THAT Conf 2024: How Downloads Really Work
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); 1st & 2nd Editions
https://textslashplain.com blog
See other writing at 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

Sept '97-May '01 | Bachelor's 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

SELECTED VULNERABILITY DISCOVERIES
- CVE-2024-21351
- https://hackerone.com/ericlaw?type=user

FORMAL LEADERSHIP
- Group Product Manager for Microsoft Defender Protection Team
- 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
- Coding: C#, C++, Delphi, JavaScript, C, Java
- User Interface design and analysis

OLDER WORK HISTORY

Sept '00-Jun '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.

Jun '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.

Jun '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.

Jun '97-Jun '98   Associate Programmer, DiGioia and Associates, Incorporated; Frederick, MD
                   Designed and developed Windows applications in Delphi.

Jun '94-Jun '96   Electronics Test Technician, EIT Incorporated; Sterling, VA