Michael Jarrett

Lynnwood, WA, United States
michael@jarrettnw.com
(425) 533-3069

Objective

Veteran Software Engineer and Engineering Lead experienced shipping world-class software to hundreds of millions of customers, looking for the next opportunity to contribute to innovative software projects with the potential to impact the world.

Summary of Qualifications

- Management and growth of software engineering teams, including remote employees.
- Software engineering process management for client releases.
- Fifteen years of experience in C++ coding.
- Eleven years of experience in OS security and anti-malware.
- Ongoing experience in Windows, Linux, C++, Java, C#, XAML, HTML, CSS, Javascript, MySQL, PHP.

Professional Experience

Microsoft Corporation (Redmond WA)   2006 – Present

Principal Software Engineering Lead: Windows Defender platform (2015 – Present)

Managed a team of twelve full-time software engineers developing client components for Microsoft's anti-malware technologies. Shipped three major releases into the Windows 10 and Windows Server 2016 operating systems, while concurrently delivering updates to tens of millions of customers though consumer and enterprise security products. Drove new features in Windows Defender to raise product awareness and customer satisfaction, and enhance cloud-powered protection.

Senior Software Development Engineering Lead: Windows Defender engine (2014)

Managed a team of six full-time software engineers over a period of four months. Delivered monthly updates at high quality to hundreds of millions of devices, while driving new features including kernel malware removal. Fostered inter-team collaboration with remote partner team. Negotiated combined engineering transition.

Software Development Engineer: Windows Defender engine (2006-2015)

Software Development Engineer (SDE), SDE2 and Senior SDE contributing to Microsoft's anti-malware scanning engine, shipping monthly to hundreds of millions of devices. Drove malware remediation feature; building features to improve malware removal rates in the wild to over 90%, and enabled diagnosis in cases where remediation failed. Developed and contributed to file parsers for archive formats and telemetry collection features. Modernized automated testing infrastructure.

Developed pre-release validation program to automatically deliver and measure build quality in both internal and external beta populations. On multiple occasions this system identified critical bugs that were able to be corrected before the scheduled release.

Sun Microsystems (Mountain View, CA)   2002, 2003

Research Developer Intern (January – April 2003)

Instrumented the SPARC version of Hotspot Java Virtual Machine to collect memory traces to be used in computer processor research simulations.

Research Developer Intern (May – August 2002)

Integrated memory simulator with Java-based memory visualization tool.

Pitney Bowes (Derby CT)   2001

Software Engineer Intern (September – December 2001)

Researched and demonstrated flaws in IEEE 802.11 wireless networking security standards, and reported vulnerabilities to vendors of 802.11 hardware products.

Corel Corporation (Ottawa, Ontario, Canada)   2000, 2001

Software Developer Intern (January – April 2001)

Maintained and enhanced archiver application for open-source K Desktop Environment.

Quality Assurance Specialist Intern (May – August 2000)

Integrated support for thirty unsupported hardware devices into Corel Linux. Analyzed and reported on network security of Corel Linux, leading to the discovery and correction of several security flaws.

Education

University of Waterloo   1999-2005

Candidate for Masters of Applied Science (2004-2005)

Bachelor of Applied Science (1999-2004)

Computer Engineering – Honours Co-Op, Software Engineering Option

Personal Experience

- Developed applications for Windows Store, targeting PC and Windows Phone.
- Developed and managed online web strategy game, reaching 40 teams with 200 total participants over three years.

Patents

M. S. Jarrett, et al, "Clean store for operating system and software recovery," U.S. Patent 8 612 398, December 17, 2013.

M. S. Jarrett, A. M. Marinescu, M. G. Gheorghescu, G. C. Chicioreanu, "Thread scanning and patching to disable injected malware threats," U.S. Patent 8 387 139, February 26, 2013.

M. S. Jarrett, "Resource-reordered remediation of malware threats," U.S. Patent 8 087 061, December 27, 2011.