

Berend-Jan Wever

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Senior Information Security Specialist

- Veteran of specialist security teams at both Microsoft and Google.
- Prolific vulnerability finder with a track record of discovering security issues in widely used application spanning more than 15 years impacting billions of internet users.
- Skilled security researcher with a knack for bypassing security boundaries and mitigations.
- Avid security community member contributing back through many publications and as a speaker at conferences.
- Microsoft Security Research Center [Top 100 Security Researcher](#).

Selection of Recent Projects

[BugId](#)

Software to automatically analyze crashes and determine their security impact.

- Reduce the need for a large and costly team of specialized security engineers.
- Reduce time-to-patch and window of exploitability by prioritize important issues and speeding up analysis.
- Create detailed reports containing both concise management-level information and extensive technical details.

[Browser Security Whitepaper](#)

Whitepaper collecting all relevant information on the security of a number of different web browsers.

- Covers everything from high-level configuration management to low-level security technologies.
- Helps IT managers make an informed decision about which browser is best suited for their specific needs.
- Provides security experts with evidence based data on which browser protects best against specific risks.

Recent Work History

Owner of SkyLined Security

Company: SkyLined Security

Location: Work from home in the Netherlands

Period: 2011-2018

Position: Owner

- Developed automated security tests (fuzzers) that found [a large number of issues](#) in high-profile targets, including Microsoft Windows, Microsoft Internet Explorer, Microsoft Edge, Google Chrome, and Mozilla Firefox.
- Worked as an external consultant on a wide-range of projects from pen-testing, code-, and design-reviews, through fuzzer development and integration to writing whitepapers and guidance documents.

Google Chrome Security Team Founder

Company: Google

Location: Work from home in the Netherlands

Period: 2008-2011

Position: Senior Software Security Engineer

- Hired as an initial member of the [Google Chrome](#) Security Team. Hit the ground running to make sure the software did not ship with any mayor security issues three months later.
- Developed tools to look for and analyze security issues in nearly all parts of the codebase, which are still actively used to this date.
- Found large numbers of vulnerabilities, analyzed externally reported vulnerabilities and guided the patch process to release comprehensive fixes to customers at record speeds.

- Improved security by mitigating or preventing exploitation of issues through design and implementation changes and offered guidance and advice to Chromium project members on security related topics.
- Participated in setting up and maintaining the [Google Chrome Vulnerability Reward Program](#).

Security Windows Initiative Attack Team member

Company: Microsoft

Location: Work from home in the United Kingdom

Period: 2005-2008

Position: Security Software Engineer

- Joined a newly formed team of two security researchers working from home in Cheltenham, UK, as the European branch of the larger SWI-AT team.
- Developed better tools to automate the detection of security issues, such as fuzzers and compiler plug-ins that detect vulnerable design and implementation patterns.
- Reviewed code and patches and analyzed external reports of vulnerabilities in Microsoft products.
- Researched new attack vectors and techniques and shared knowledge with developers working on various product teams.
- Took part in the hiring and on-boarding of additional team members in the UK.

Skills and Experience

Key skills

- Working from home for 15+ years with various teams based all over the world has resulted in good communicative skills and an ability to work both in a team and independent.
- A history of developing innovative security techniques has shown continuous initiative and creativity.
- A wide range of projects has provided experience in a large number of programming languages and applications. Programming languages include but are not limited to: ASP, x86, IA-32 & x86-64 Assembler, Batch scripting, C, C++, C#, CSS, ECMAScript, HTML, Java, JScript, PHP, Powershell, Python, SQL, SVG, VBScript, VML, and XML.
- Comfortable and experienced with learning new programming languages, applications and frameworks on the job.

Historically Notable Publications

A small selection of contributions to the information security community that have not been mentioned above:

- Developed and [released](#) various tools for security researchers as open source software.
- [Released](#) technical analysis of a large number of vulnerabilities and techniques.
- Illustrated the fragility of state-of-the-art web browser code by publishing a new way to crash a web browser - [in a tweet](#) - daily for a large part of 2016.
- [Introduced heap-spraying](#) in web browsers, a technique that facilitates exploitation of vulnerabilities in application. This technique has been widely adopted and built upon to bypass mitigations and create sophisticated and reliable exploits.
- Co-author of [the world's smallest Windows shellcode](#) and inventor of the concept of [Omelette](#) shellcode.
- Creator of the first practical [alphanumeric shellcode encoder](#), which was ported to the [Metasploit framework](#) and author of [ASCII art shellcode](#).
- Created [the first](#) Proof-of-Concept [XSS worm](#) in 2002 to warn of their potential danger; the first [publicly released](#) XSS worms proved they can causing serious damage 3 years later.

Spoken languages

Dutch - native

English - Fluent

German - Proficient

French - Basic