

JELMER DE HEN

Security Researcher

@jelmer@gcb.io 📍 Netherlands [in](#) jelmerdehen [G](#) JelmerDeHen



Seasoned security researcher with over a decade of expertise in application security, red teaming, and reverse engineering. Specialized in mobile security and threat hunting, I have consistently identified and mitigated critical vulnerabilities including high-impact Android flaws affecting over a billion devices.

EXPERIENCE

Head of Android R&D

Trail of Bits / iVerify

📅 2022 – 2024 📍 New York, United States

- Led the Android threat-hunting initiative, developing solutions to identify mercenary spyware on mobile devices.
- Directed Android malware identification efforts targeting high-profile targets in civil society and tech.
- Implement malware detection capabilities for Android.
- Development of the iVerify Android application and backend infrastructure.

Senior Information Technology Consultant

Include Security

📅 2020 – 2022 📍 New York, United States

- Performed secure code reviews and penetration testing for Fortune 500 clients, resolving critical vulnerabilities and delivering detailed technical reports.

Senior IT Security Researcher

Cycura

📅 2015 – 2020 📍 Toronto, Canada

- Led red team operations.
- Conducted secure code reviews, black/whitebox engagements, incident response, exploit development, development of implants and performing physical security audits.
- Auditing the security of critical infrastructure in sectors such as healthcare and energy (for example a nuclear power plant).

Founder

General Cyber Ballistics

📅 2014 – Ongoing 📍 Remote

- Deliver IT security services.
- Perform deep security research and build tooling to assist this.
- Participated in Bug Bounty programs for companies such as HackerOne, Bugcrowd, and Synack having found many critical vulnerabilities over the years, and participated in and won live hacking events.

KEY SKILLS

- Reverse Engineering
- Application Security
- Threat Hunting
- Android Security
- Report Writing
- Fuzzing
- Assembly
- Embedded Security

PROGRAMMING

Go	●	●	●	●	●
PHP	●	●	●	●	●
JavaScript/TypeScript	●	●	●	●	●
SQL	●	●	●	●	●
Kotlin	●	●	●	●	●
Java	●	●	●	●	●
C	●	●	●	●	●
Python	●	●	●	●	●
Node.js	●	●	●	●	●
Smali	●	●	●	●	●
C++	●	●	●	●	●

LANGUAGES

Dutch	●	●	●	●	●
English	●	●	●	●	●
French	●	●	●	●	●
German	●	●	●	●	●

Forensics/eDiscovery

Holland Integrity Group

📅 2011 – 2014

📍 Almere, Netherlands

- The collection, digitization, conversion (OCR), and data indexing to assist financial fraud investigations.
 - Parsing of unknown file formats, making them usable for investigators.
 - Supervise the digitization process of physical documents.
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Fullstack Developer

E11EVEN

📅 2011 – 2014

📍 Apeldoorn, Netherlands

- Development of APO11O – a platform to load data, index it, make it searchable, and collaboratively perform investigations.
 - Facilitate IT security services such as penetration testing, incident response, and computer forensics.
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Content Manager

Certified Secure

📅 2010 – 2011

📍 The Hague, Netherlands

- Created hacking challenges and educational content in the form of guides and videos.
- Research and publish interesting computer security topics with the community (such as MIFARE 4k/OV-chipkaart).
- Maintain activity on social channels.

HONORS & AWARDS

- Google Security Hall of Fame (Aug 2011)
- Barracuda Bug Bounty Hall of Fame (Mar 2013)
- Mozilla Web And Services Bug Bounty Hall of Fame (Nov 2013)
- Detectify Hall of Fame (Nov 2013)
- Salesforce Hall of Fame (Jan 2016)

HACKERONE EVENTS

- H1-702 2016 (2nd place)
- H1-415 2017
- H1-702 2017
- H1-3120 2018
- H1-702 2018 (1st place, team)
- H1-4420 2019