Koen van Hove





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WHO AM I?

My name is Koen van Hove, I am a computer scientist from the Netherlands. My main field is computer networking, specifically with a focus on network security. I also enjoy the challenges that come with distributed computing. I like to do things that have a meaningful, positive impact on the lives of others – whether that is creating a piece of software that makes a task easier, or finding and disclosing a security vulnerability.

DETAILS

NATIONALITY Dutch DATE OF BIRTH 4 January 1999 DRIVING LICENCE B and AM

EXPERIENCE	
Jan. 2023 – now	Software & Research EngineerNLnet LabsDeveloping software for the benefit of the Internet, contributing to standardsand Open Source software development.
Mar. 2023 – now	External PhD Candidate Researching a holistic view of internet protocol security and vulnerability dis- closure.
Oct. 2013 – now part time	Founder Koenvh Independent one person software development firm, primarily Astiga (see projects for more details).
Mar. 2018 – Dec. 2022 part time	Researcher University of Twente Working on DDoS Clearing House, a novel method to categorise the aspects of DDoS attacks in order to enable operators to create effective blocking rules minimising collateral damage, presented at RIPE 78 in Iceland.
Sep. 2022 – now volunteer	Researcher level 2Dutch Institute for Vulnerability DisclosurePrimarily working on SPooFd (see projects). Asked to join by the CISO of theACM, Fleur van Leusden.
May 2020 - now volunteer	Development & IT operations Volunteer work. Managing the servers of the association, as well as creating
	tooling necessary to support the work of the association (e.g. server plug-ins, game support, etc.).
Feb. 2016 – Nov. 2017 part time	tooling necessary to support the work of the association (e.g. server plug-ins, game support, etc.).

Oct. 2013 – Oct. 2017 volunteer Volunteer work. Managing workspaces, configuring servers and rolling out applications. Additionally being first-line support for users.

EDUCATION

Feb. 2020 – Aug. 2022	Master Computer Science Custom Master programme with a focus on research from the PhD programme. Master thesis about "rpki an RPKI Relying Party Perspective" (graded 10/10 During the research phase, I built a proof of concept all current Relying Party implementations, as well as herent to the protocol and cannot be resolved withou Together with the NCSC-NL I coordinated the CV ties involved. This resulted in CVE-2021-3907, '-3 3911, '-3912, '-43172, '-43173, '-43174, '-202 0987, and an OpenBSD errata. I created a draft RFC the protocol. This draft is being discussed in the IET and was presented at APRICOT 2022 and IETF 113	Iler: Threat Analysis from). Graduated cum laude. I found vulnerabilities in vulnerabilities that are in- ut making an amendment. D process with the par- 3908, '-3909, '-3910, '- 2-29154, NCSC-2021- for solving the issue with F sidrops working group,
Sep. 2017 – Jan. 2020	Bachelor Technical Computer Science Graduated cum laude in less than nominal time. Bac fingerprinting".	University of Twente helor thesis about "DDoS
Sep. 2011 – Jun. 2017	Secondary school VWO sciences track with economics, graduated cur	Veluws College Walterbosch n laude.

CERTIFICATES

- September 2021
 Security Hall of Fame
 RIPE NCC

 Found and responsibly disclosed security issues in the RIPE NCC RPKI Validator 3.
 Security Hall of Fame
 RIPE NCC

 June 2017
 Urkunde Deutsch
 Vereniging van Leraren in Levende Talen

 Certificate for achieving a high final grade for the exam of German Language
- June 2016 Cambridge English: Advanced Cambridge Assessment English Cambridge English Level 3 Certificate in ESOL International, grade A with an overall score of 202. Equivalent to C2 on the CEFR scale.

and Literature.

PROJECTS

Jan. 2017 - Aug. 2021 Astiga Koenvh Platform to play back music from the cloud (WebDAV, OneDrive, Dropbox etc.) to the browser and mobile devices. In August 2021 around 17,000 users, sold in 2021 for \$12,500.

Mar. 2021 - Sep. 2023 **rpkiller** Testbed for RPKI Relying Party software – a practical component of the research effort of the Master looking into the abilities for malicious certificate authorities and repositories to disrupt the global operation of RPKI.

Aug. 2022 - now	SPooFd Koenvh & University of Twente & Dutch Institute for Vulnerability Disclosure Project regarding the ability to spoof email at shared webhosters, allowing us to pass SPF/DMARC checks (and sometimes DKIM too). Resulted in a CVD with governments and semi-governments throughout Europe. Presented at the 35th Annual FIRST Conference, SECCON 2023, ONE Conference 2023, NLUUG. Known as "Your Vulnerability Disclosure Is Important To Us" which appeared in national media (e.g. https://nos.nl/1/2492689) and appeared on the "Met Nerds Om Tafel" podcast.
Mar. 2019 - now	Rally SatNavKoenvhAndroid app that generates simplified Jemba Inertia Notes System pacenotes for one's own routes.
Feb. 2018 - Apr. 2020	Scalable Blockchain for Digital Cash University of Twente Model for a scalable Blockchain alternative that does not have the same throughput limit as the traditional Blockchain by tracking the owner of the coins themselves (each coin is its own chain), rather than keeping track of the transactions.
May 2018 - now	European Public BroadcastingKoenvhA website for watching videos from European public broadcasters (ARD, DR,NPO, NRK, SVT, ZDF) with automatically translated subtitles.
Nov. 2016 - now	Local Radio for ATS/ETS2 Koenvh An application that, based on the user's relative position in American Truck Simulator or Euro Truck Simulator 2, offers a set of radio stations that real- istically could be received in that area. For example, whilst driving in Malmö, Sweden, Swedish and Danish stations will be available. When continuing fur- ther to Oslo, Norway, the reception of the Danish stations will get less. At some point Norwegian stations will be receivable, until finally the reception for the Swedish stations fades away.

LANGUAGES

DUTCH native ENGLISH proficient (C2) GERMAN proficient (C1)

I enjoy toying around with networking, References are available on request. security, and open data. I also like designing, printing, and working with paper. I am an avid driver and "sim racer" (virtually racing cars around circuits worldwide, aiming to get as close to reality).

HOBBIES

REFERENCES