

Karin Ekenberg

IT-säkerhetsingenjör (studerande) | AppSec & Green IT

Karin Ekenberg
[Portfolio](#) | [LinkedIn](#) | [Github](#)

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Summary

Aspiring IT Security Engineer combining a solid foundation in web development (.NET/React) with a passion for infrastructure security. Driven by **Secure by Design** principles and **Green Coding** to build resilient and resource-efficient systems. Seeking an in-house role to contribute to long-term security architecture and system hardening.

Skills

IT Security: Vulnerability Assessment, Penetration Testing, Risk Analysis (OWASP/CVE), System Hardening, Network Security.
Tools: Nmap, Wireshark, Burp Suite, Git, Visual Studio.
Frontend: HTML, CSS, TailwindCSS, JavaScript, TypeScript, React, WordPress
Backend: C#, .NET, SQL
API & Integration: RESTful API, Resend, Stripe, Instagram, SVFF
Design: Figma, Photoshop, Illustrator
Project: Scrum, agila metoder, Jira
Language: Svenska (modersmål), engelska (flytande), tyska (grundläggande)
Other: B-drivers license.

Experience

Joart / Web Developer, Internship

November 2024 – April 2025, remote

Developing web applications in React and TypeScript with a focus on code structure and performance. Responsible for implementing API integrations and responsive design. Working in an agile Scrum environment with daily standups.

WebIT Solutions Avesta / Web Developer, Internship

April 2024 - June 2024, Avesta

Developed and customized WordPress websites using PHP. Focused on client-specific solutions and optimization of existing themes.

Technical Projects & Labs

Network Security & Design (Cisco Packet Tracer)

- Designed and troubleshooted complex network topologies including Multi-area OSPF and RIPv2.
- Configured ACLs, NAT, DHCP Relay, and STP for optimized traffic flow and security.
- Implemented Inter-VLAN routing (Router-on-a-Stick) and network segmentation.

Ethical Hacking & Penetration Testing (Kali Linux)

- Executed full "Kill Chains" in a virtualized environment: From reconnaissance (Nmap) to exploitation (Metasploit) and privilege escalation.
- Gained practical experience with web vulnerabilities (SQLi, Command Injection) and network services (SMB, FTP).
- Analyzed backdoors and weak authentication mechanisms in Linux environments to implement hardening measures.

Green Coding Optimization (.NET)

- Refactored legacy code to minimize resource consumption and execution time, demonstrating practical application of sustainable software development.

Education

Yrkeshögskolan i Enköping / IT-security engineer

2025-present, Enköping

(Higher Vocational Education) Curriculum: Ethical Hacking, Vulnerability Assessment, Hardening (Windows/Linux), Network Technology, Virtualization & IT Law (NIS2/GDPR).

University of Gothenburg

June 2025- August 2025, remote

Digitalization of Society – The Research Front.

NTI-skolan

April 2025- June 2025, remote

Computer and Network Technology.

TUC Yrkeshögskola / Web Developer

2023-2025, Jönköping/remote

HTML/CSS, JavaScript, C# (.NET), UX Design, CMS, LIA Internship.

Linnaeus University

June 2023 - August 2023, remote

Internet of Things.

Luleå University of Technology

January 2023 - April 2023, remote

Java, Game Design.

NTI-skolan

2021 - 2023, remote

Web Development 1-2, Programming 1-2.

Hermods

2020 - 2021, remote

General upper secondary school subjects.

Certifications

Fortinet Certified Fundamentals in Cybersecurity (Nov 2025 - Nov 2027) Focus on network security, technical protection measures, and the modern threat landscape.

Introduction to the Threat Landscape 3.0 *Fortinet Training Institute, Oct 2025* Deep dive into cyber threats, actors, and attack vectors.

Google Cloud: Introduction to Generative AI *Coursera, July 2024*