Tobias Keanu Sevivas

BSc Cyber Security

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KEY QUALIFICATIONS

- Recent graduate with a **BSc in Cyber Security** (180 ECTS) from Kristiania University of Applied Sciences, completed June 2026.
- Breadth across the security field: **cyber defence, cloud security, IoT/OT security, information risk** and governance, risk and compliance.
- Hands-on security testing experience: built and penetration-tested a smart home environment for Smart Security Lab following the **PTES** framework, identifying eleven vulnerabilities, including a command injection that unlocked an RFID-controlled door. **Understanding how an attack is carried out is what makes it possible to detect one.**
- Strong technical foundation: **A in Python**, plus C# and C. Independently build and maintain a software project of over 100 source files with its own architecture and documentation.
- Used to structured, self-directed work: **A in IT Project Management** and B in Agile Project.
- In permanent employment alongside full-time study since 2025.
- Fluent in **Norwegian and English**, written and spoken.

PROJECTS

Bachelor's thesis: penetration testing of IoT devices in a smart home environment

Spring 2026

For Smart Security Lab (SmartSecLab), Kristiania University of Applied Sciences · team of three · 22.5 ECTS

- **Built the target environment first, then attacked it.** Assembled a complete smart home system with RFID access control and LED control: Arduino Nano 33 IoT devices, a Raspberry Pi server running a Mosquitto MQTT broker, and a Python/Flask dashboard.
- Ran the penetration test to **PTES** (Penetration Testing Execution Standard) across all seven phases, from intelligence gathering through to reporting, and risk-classified every finding using **DREAD**.
- Identified and documented **eleven vulnerabilities**, including **command injection over MQTT that let an attacker unlock the door without a valid RFID card**, an unauthenticated broker, unencrypted MQTT traffic, RFID UIDs in cleartext, a default password on the web interface, and exposed UART access on the Raspberry Pi.
- Tooling: **Kali Linux** (VM under VMware Workstation Pro), **Nmap** for port and service discovery, **Hydra** for brute-forcing the web login, **Wireshark** for MQTT traffic analysis, plus PuTTY and Mosquitto clients.
- Delivered a 58-page report with a risk assessment and concrete remediation steps for each finding.

Action RPG built in Unity 2025 – present

Personal project · C# / Unity / Blender

- Building a complete game solo: over 100 C# scripts on a data-driven architecture where new content is added as data assets rather than new code.
- Wrote custom cel-shading shaders sharing a single lighting model, plus systems for wind, weather and vegetation.
- Automated the 3D asset pipeline in Blender with Python scripts, so models are built and verified reproducibly rather than by hand.
- Built custom Unity editor tooling for generating game data, and maintained written technical documentation of the architecture and design decisions throughout.

EDUCATION

BSc Cyber Security, 180 ECTS 2023 – 2026

Kristiania University of Applied Sciences, Oslo · completed 8 June 2026

Security: Ethical Hacking (15 ECTS) · Cyber Defense · Cloud Security · IoT/OT Security · Information Risk and Security · Governance, Risk and Compliance (15 ECTS)

Technology and programming: Object-Oriented Programming (15 ECTS) · Python Programming · Programming in C for Linux · Databases · Digital Technology · Visual Analytics · Unity Development

Method and project work: IT Project Management · Agile Project · Research Methods · Creative Web Project

Selected results: A in Python Programming · A in IT Project Management · B in Cloud Security · B in Governance, Risk and Compliance · B in Agile Project · B in Research Methods

WORK EXPERIENCE

Store Assistant July 2025 – present

Meny Røa, Oslo

Held alongside full-time study through to completing my bachelor's degree in June 2026. Customer service, store operations and shift work in a busy grocery store.

SKILLS

Security testing	Nmap · Wireshark · tcpdump · Burp Suite · OWASP ZAP · Metasploit · sqlmap · Nikto · Gobuster · Hydra · John the Ripper · Hashcat · Nessus
Monitoring	Splunk · log analysis · vulnerability scanning
Frameworks	PTES · DREAD · OWASP Top 10 · GRC and risk assessment
Platforms	Kali Linux · Ubuntu/Debian · Active Directory · PowerShell · Bash
Cloud and infra	Microsoft Azure · AWS · Google Cloud · Docker · VMware · VirtualBox
Programming	Python · C# · C · SQL (MySQL, SQL Server, SQLite) · Git and GitHub
AI tooling	Claude Code in daily development · Claude API integration with structured outputs and cost controls · custom commands, agent briefs and documentation structure for reliable AI-assisted work
Ways of working	Agile methodology · technical documentation · independent long-term project work

LANGUAGES

Norwegian	Fluent, written and spoken

English	Fluent, written and spoken

ADDITIONAL

Diploma	Verifiable via Vitnemålsportalen (Norwegian diploma registry) on request
References	Available on request