



Jussi Hietanen

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LATEST WORK EXPERIENCE

March 2021 – June 2022

Security Engineer

Tuxera Oy, Espoo

- Created tools to automatically discover vulnerabilities in file system drivers (C, C++, Python)
- Security incident & vulnerability management

January 2019 – March 2021

Research assistant

Aalto University, Espoo

- Implementation of a safe GNU+Linux operating system to create a controllable electronic examination environment with tools written in C & C++

September 2018 – December 2018

Junior Engineer in Test

Tuxera Oy, Espoo

- Testing of Tuxera's filesystem kernel drivers & integration of new hardware for testing

June 2017 – September 2017

Research assistant, Bachelor's thesis worker

Aalto University, Espoo

- C++ implementation of the PDCCP protocol layer in NB-IoT research team

January 2017 – December 2018

Teaching assistant on different university courses

Aalto University, Espoo

- Teaching the basics of C programming, Computer Networks and C++ both in teaching assistant and head assistant roles

Before 2017

Different temporary jobs

- Spring/Summer of 2015/2016 – Atria Oyj, Seinäjoki – Seasonal worker at Atria Oyj as a meat packer
- Fall 2014 – Finnish Defence Forces, Riihimäki – Contract soldier as 2nd lieutenant.
- Spring 2013 – Different schools, Seinäjoki area – Substitute teacher in elementary and secondary schools

EDUCATION

2015 – 2018

Bachelors's degree in Information Technology

School of Electrical Engineering, Aalto University

- Courses regarding digital signal processing, programming (mainly C, python & C++), and mathematical subjects.

2018 – 2021

Master's degree in Computer Science

School of Science, Aalto University

- Major in Security and Cloud Computing, which was very security-oriented.
- Master's thesis about the system security (threat modeling and analysis) of the customized electronic exam environment described above.

SKILLS

Languages Finnish – native
English – fluent

Programming / scripting Most experienced with C, C++, Python, & Unix shell scripting

- Very familiar with basic & advanced C/C++ programming (& boost library).
- Familiar with POSIX interfaces and Windows/Linux kernel driver development.
- Familiar with EDK 2, see the SMM rootkit from my GitHub.
- Fast learner when working with new project or library code bases!

Familiar with C#, MatLab, MySQL, HTML, CSS, legacy PHP, legacy x86 asm...

- I have used programming languages listed above in various personal projects.

Other skills

- Generally experienced GNU/Linux user
- Good understanding of computer networks
- Containers (docker)
- CI/CD (personal experience with GitLab's and GitHub's CI/CD pipelines)
- Familiar with software project management methodologies (Agile, waterfall etc.)
- I get along well with people, and I am not afraid to perform or teach in front of a larger crowd

PERSONAL INTERESTS

Chess and board games

- I play online chess almost daily
- I have programmed a simple chess AI, also implemented a novel AI for "BattleSheep" board game

Linux on smartphones

- PinePhone Braveheart owner
- Also running SailfishOS on my daily driver to make my life harder
- Waiting for and maybe unknowingly living the first years of proper Linux on phones (since I had my first MeeGo phone in 2012)

Hi-Fi – I enjoy listening to good quality music through a good quality audio setup

Physical hobbies – Hiking, gym, jogging, practical shooting