

Jussi Hietanen

- Sepoo, Finland
- +358 50 911 5671
- jussi.hietanen@iki.fi
- in jussi-hietanen-ba0320107
- () jussihi

LATEST WORK EXPERIENCE

January 2019 - present

Research assistant

Aalto University, Espoo

- Planning and development of a secure environment for electronic examination.
- Implementation is a GNU/Linux customized operating system with different kinds of tools to control the examination environment written in C & C++.

September 2018 – December

Junior Engineer in Test

2018 Tuxera Oy, Espoo

- Testing of Tuxera's filesystem kernel drivers
- Preparation of new hardware platforms for Linux kernel driver testing

June 2017 – September 2017

Research assistant

Aalto University, Espoo

- Software implementation of the PDCP protocol layer in a NB-IoT research team.
- The implementation in C++. I also wrote my Bachelor's thesis about the same subject.

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

As the head assistant, I was in response of improving the course material and creating new exercises.

Before 2017

Different temporary jobs

- Summer 2016 Atria Oyj, Seinäjoki Seasonal worker at Atria Oyj as a meat packer.
- Spring 2015 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 workplaces, Seinäjoki 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++ & 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 Python, C#, MatLab, MySQL, HTML, CSS, legacy PHP, legacy x86 asm...

- I've used Python on two university level programming courses, and programmed some simple scripts using it. I have contributed to the open-source pyubee and pytomo libraries.
- I used C# when coding a simple 2D game with the Unity game engine.
- I used MatLab during different DSP-related courses in university.
- I have used the rest of the 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 the GitLab CI/CD pipeline and its custom runner setup)
- Familiar with Agile methodologies, good general knowledge of software engineering
- I get along well with people, and I am not afraid to perform or teach for a larger crowd
- Good sense of humor :-)

PERSONAL INTERESTS

Chess

I play online chess almost daily

- I am a huge fan of Agadmator's chess channel on Youtube!

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, which I started to love during my conscription in the Finnish Defence Forces
- I go to the gym two to four times a week
- Occational jogging
- Practical shooting