

Martin Takeya Weber

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Personal

Born on June 26, 1990. Swiss and Japanese Citizen.

Education

2010 Swiss Matura — Mathematics and Natural Sciences, Gymnasium Neufeld, Bern

2016 B.Sc — Computer Science, Swiss Federal Institute of Technology, Lausanne (EPFL)

2019 M.Sc — Computer Science, Swiss Federal Institute of Technology, Lausanne (EPFL)

Employment

EPFL, Lausanne

Student Teaching Assistance (2013–2016)

Assisting TAs at helping students for the CS courses *Computer Architecture I+II* (VHDL and NIOS II/MIPS on an FPGA), *Programming I II* (C), and the *Systems-Oriented Programming* project (C).

Student Assistance (spring 2015)

Writing a small CLI in Python for building and controlling *Chef*, a VM-based symbolic execution framework for scripting languages.

DomoSafety, Lausanne

Programming (spring 2016)

Setting up *Raspberry Pis* to collect logs from devices connected both via serial cable and the *ZigBee* wireless protocol and to store them on a central server.

Papiliorama Foundation, Kerzers

Civil Service: System Administration (2016, 2017)

Managing and improving an existing server infrastructure (Linux/Windows) and network consisting of various devices (PCs, cameras, printers); unifying previously scattered services (DNS, mail, web, LDAP); creating/improving internal documentation; end-user support.

Bity SA, Neuchâtel

Internship: System Administration (summer 2018)

Creating a PXE- and Ansible-based automated installation system for Debian GNU/Linux.

Works

Das Neunzehnstufige Tonsystem

Matura Project, Bern, November 2009 (german)

<http://ayekat.ch/files/pdf/gym-final.pdf>

Mechanisms for Supporting Guest-Level API for full VM Binary Analysis

Bachelor Semester Project, Lausanne, January 2015

<http://ayekat.ch/files/pdf/ba-final.pdf>

Introducing Scheduling decisions in cooperative multitasking: an automated approach

Master Semester Project, Lausanne, January 2019

<http://ayekat.ch/files/pdf/ma-semester.pdf>

Measuring network service latencies with a programmable data plane

Master Thesis, Lausanne, July 2019

<http://ayekat.ch/files/pdf/ma-final.pdf>

Projects

karuiwm

Dynamically tiling window manager for X11

<https://gitlab.com/ayekat/karuiwm>

repkg

Tool for modifying packages for pacman-based Linux distributions

<https://gitlab.com/ayekat/pacman-hacks/>

Other Activities

GNU Generation <https://gnugen.ch/>

Student association on the EPFL campus that promotes the use of Free and Open Source Software and provides a platform for meeting people interested in FOSS; *de-facto* helpdesk for GNU/Linux and other FOSS on the campus.

Member of the Association (since 2013)

President of the Association (2017)

Skills

Programming

C, sh, Python

SysAdmin

Linux (Arch, Debian), systemd, nftables, lighttpd, QEMU/KVM, GitLab/gitolite, OpenLDAP, Ansible

Languages

- German & Swiss Alemannic (mother tongue)
- English & French (proficient)
- Japanese (basic skills)

Interests and Hobbies

Operating Systems (Unix/Linux), System Administration, Software Development, Networking, Music (guitar, drums), Photography, Tabletop/Card Games, Typography, Linguistics

Last updated: July 28, 2019

<http://ayekat.ch/files/pdf/cv.pdf>