

Simon Michalke

robust, simple, reliable and efficient

Education

- Currently **Master Studies in Physics**, *Friedrich-Alexander-Universität Erlangen-Nürnberg*, Germany.
- 2014 - 2018 **Bachelor of Science in Physics**, *Friedrich-Alexander-Universität Erlangen-Nürnberg*, Germany.
- Fall 2017/18 **Semester abroad**, *Umeå University*, Sweden.
- 2014 **University-entrance diploma**, *Descartes Gymnasium Neuburg*, Secondary School.

Work Experience

- Januar 2018 – **Scientific Assistant**, *FAU Erlangen-Nürnberg*.
 - Present Development in C++ and maintaining CMake build files.
 - 2014 – **Scientific Assistant**, *FAU Erlangen-Nürnberg*.
 - Present Various tutor occupations for student science camp "ESFZ"
- 2015 – 2017 **Software Developer**, *Siemens AG (Department Mobility)*, Erlangen.
 - Development of data processing software in Java.

Server Administration Experience

Chronological

- October 2016 **System Administration**.
 - present Running my own infrastructure for data backup, web sites and services and for synchronizing calendars and contacts. I am also running my own vpn, some game servers and an email server. The server utilizes virtual machines and has multiple ipv4 addresses and thus virtual networks. Since November 2018 I also have a fully working ipv4/ipv6 dual stack system set up and running.
- Jun 2014 – **System Administration**.
 - 2016 Running my own small webserver on a virtual server
- Jan 2014 – **System Administration**.
- End of 2017 Maintaining web and gaming servers for online communities. This also included administrating forum websites and some minor software development. My first community was prteamwork.com until we split off and formed alwaysbased.com. Alwaysbased still exists but we are inactive at the moment.

Detailed

virtualization	qemu+kvm with libvirt
web server	apache (basic), nginx (advanced knowledge)
(virtual) networking	basic knowledge; configuration of libvirt vnets; working with iptables
web services	good knowledge of setting up various CMS or forum software; experience in plugin development; integrating services into each other
email	mailserver setup using tools like mailcow; DNS setup with spf, DMARC and DKIM

Programming Skills

Main Languages

Basic	Assembler, JavaScript
Intermediate	C, Python
Advanced	C++, Java

Other (descriptive) languages I regularly use

\LaTeX	a high quality document preparation system (This CV is made with \LaTeX)
Octave	mathematical calculation with matrices; Open Source clone of matlab
bash	scripting and sysadmin work
web development	html/CSS/JS: intermediate knowledge
CMake	experience in maintaining bigger projects
maven	experienced

Tools and programs

GNU/Linux	my operating system for everyday use; advanced knowledge of administrative tasks, package management, and all the fun stuff; mostly debian-based distros (pure debian for servers, ubuntu/linuxmint for clients)
EAGLE	electronic circuit and board layout program
Inkscape	creating and editing vector graphics
Sublime	my favourite text editor
guake	a handy drop-down shell
eclipse	java and C++ development environment

Languages

German	Mother tongue
English	Con conversationally fluent C1 (University-entrance diploma), B2 (Cambridge Certificate)