

Jan Christoph Uhde

Diplom Informatiker

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As you think, so shall you become.

Experience

- Sep 2020 – Today **Senior Software Engineer / Teamleader**, *Zendu GmbH*, Cologne
- New maintainer of C++ BetStack (QT, Protobuf, Kafka, MariaDB)
 - Created user based risk management service (first very basic version in Go)
 - Helping with CI (images for gitlab runner / re-enabling automatic tests)
 - Became nationally certified training supervisor
- May 2021 – Today **IT Consulting (secondary employment)**, *Kitamare gGmbH*, Cologne
- Changed email service provider
 - Introduced ticket system
- Jul 2016 – Jul 2020 **Senior Software Engineer**, *ArangoDB GmbH*, Cologne
- Implemented server side binary networking protocol
 - Created C++ and JavaScript database drivers (using boost.asio and Node.js nan)
 - Created JSON-Schema validation (C++ , JavaScript)
 - Implementation of the OneShard Feature (C++ , JavaScript)
 - Improved several optimizer rules
 - Helped creating the new RocksDB storage backend
 - Added access to geo-index to query language
 - Implemented cluster selectivity estimates
 - Provided clang-tidy and format containers
 - Worked on internal build system (CMake, docker, Python, fish)
- Aug 2013 – Jul 2016 **Software Engineer**, *ModuleWorks GmbH*, Aachen
- Designed and developed an NC-code posting-framework (Python)
 - Ported C++ main libraries from Windows to Linux (gcc/gdb)
 - Worked on algorithms in path-planning core (Visual C++)
 - Added Linux support to in-house buildsystem (Python/CMake/Bash/Batch)
 - Virtualization of Linux servers (QEMU/Puppet)
- Nov 2012 – Aug 2013 **Research Assistant**, *ModuleWorks GmbH*, Aachen
- Cross-compiled libraries from x86 to ARM (crosstool-ng)
- Feb 2009 – Jun 2010 **Research Assistant**, *Fraunhofer-Institut für Lasertechnik (ILT)*, Aachen
- Development of tools for creation, analysis and playback of highspeed videos. (C++ , OpenCV, wxWidgets)

Education

- Mar 2005 – May 2013 **Study of computer science (Diplom)**, *RWTH Aachen University*, Aachen
Thesis: Optimization of Discrimination Networks (Prof. Dr. Matthias Jarke)

Skills

- programming languages C++ (stl/boost/gTest), Go, Python, Bash, JavaScript
- operating systems GNU/Linux, OSX, Windows
- tools GCC, Clang, Make, CMake, GDB, Git
Qemu, Docker, iptables, Apache, systemd

Additional Information

languages German (native), English (fluent)

interests C++ user groups (Aachen, Düsseldorf, Cologne), Project Euler

References

ArangoDB Dr. Max Neunhoefer <max@arangodb.com>

ModuleWorks Dipl.-Ing. Dipl.-Inform. Lothar Glasmacher <lothar@moduleworks.com>

Personal Prof. Dr. Sebastian Siebertz <siebertz@uni-bremen.de>

Maksim Arutyunyan <marutyunyan@google.com>