LARS QUENTIN

Computer Science Student, Programmer

@ lars@lquenti.de   📍 Göttingen, Deutschland   🌐 lquenti.de   ⚙ lquenti   lars.quentin   🔗 lars-quentin-68375217a

EMPLOYMENT HISTORY

Student Researcher
Gesellschaft für wissenschaftliche Datenverarbeitung Göttingen

📅 2021 October – now   📍 Göttingen

High Performance Computing   Storage   Data Science

- Creating a Black-Box method for classifying I/O-Requests in linux-based systems.

IT-Support and Web development
Max-Planck-Institut für biophysikalische Chemie

📅 2017 September – 2021 Sept.   📍 Göttingen

Python   Django   Linux   Client Support

- First- and Second-Level Support
- Concept and Implementtion of a Django-based web frontend for long term data archivation

Full-Stack PHP-Developer
Universität des Dritten Lebensalters Göttingen e.V.

📅 2020 February – 2021 January   📍 Göttingen

PHP   ES6+   Bootstrap   docker

- Development and Maintenance of internal PHP-Framework

Tutor Programming Course
Georg-August-Universität Göttingen

📅 2019 April – 2019 October   📍 Göttingen

Java   Git   Swing   Graphentheorie

- Supervision of bachelor students
- Task: Creating a turn based video game in Java
- Average Grade my groups recieved: 1.4

Internship
Max-Planck-Institut für Dynamik und Selbstorganisation

📅 2015 September – 2016 May   📍 Göttingen

Bash   Linux   Python

- Installation and Configuration of several Linux distributions.
- First programming experience in bash as well as Python2
- First experience with Linux Server administrations, especially old school Webstacks and LXC

EDUCATION

Applied Computer Science B.Sc
Georg-August-Universität Göttingen

📅 2023 Janurary – now

Current Average Grade: 1.0

Applied Computer Science B.Sc
Georg-August-Universität Göttingen

📅 2017 October – 2022 December

Average Grade: 2.0

Fachhochschulreife Informatik
BBS 2 Göttingen

📅 2015 – 2017

Average Grade: 2.2

TECHNOLOGIEN

Python ⬤⬤⬤⬤⬤

Linux ⬤⬤⬤⬤⬤

Rust ⬤⬤⬤⬤◯

Git ⬤⬤⬤⬤◯

C ⬤⬤⬤⬤◯

C++ ⬤⬤⬤◯◯

INTERESTS

Performance Engineering   HPC   Scalable Architecture   Cloud Computing   System development   Algorithms & Data Structures

SELECTED OPEN SOURCE PROJECTS

blackheap (actively developed)
https://github.com/lquenti/blackheap

`Rust` `C` `Benchmarking` `Statistical Modelling`

- Creates linear models for characterizing I/O accesses.
- Blackbox approach, doesn't require any knowledge about the storage system.
- Benchmarker written in C and Rust.
- Can be integrated with iofs.

iofs (Maintainer)
https://github.com/gwdg/iofs

`C` `FUSE` `Monitoring` `InfluxDB`

- FUSE-based filesystem for logging I/O accesses.
- Remounts local filesystem for metric aggregation.
- Supports metric streaming to Elasticsearch and InfluxDB (v1).

walky
https://github.com/lquenti/walky/

`Rust` `MPI` `Algorithms` `HPC`

- Rust-based Travelling Salesman Problem Solver.
- Exact solver and multiple approximation algorithms.
- Multi node MPI support using rsmpi.

ankiding
https://github.com/lquenti/ankiding

`Rust` `Markdown` `Anki` `CI/CD pipeline` `LaTeX`

- Defines a GFM/GLFM syntax extension for flashcards.
- Exports markdown files with flashcards to Anki decks.
- Can be used automatically in CI-Systems.
- Supports LaTeX formulas on Mobile.

curvepy
Numerikgang

`Python` `Numerics` `Computational Geometry`

- High Performance Pythonlibrary for computational geometry
- Focus on Bezier Curves and Voronoi Regions via Delaunay Triangulations
- High Test- and Docstring Coverage

Programming Course for Law Students
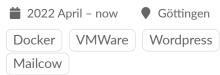**eLegal e.V., https://www.elegal.technology/**

`Teaching` `Java` `Apache POI`

- An Introduction to Legal-Tech
- Created for this course: Keres, a graphical Word template engine
- Postponed due to Corona

VOLUNTEERING WORK

IT-Administrator and Student Rental Service
Studentendorf Göttingen

📅 2022 April – now   📍 Göttingen

`Docker` `VMWare` `Wordpress` `Mailcow`

- Maintenance of dorm infrastructure
- VMWare Hypervisor administration
- Dockerization of Website and Mailserver (Infrastructure as Code)
- Building rsync-based rolling backup solution on tape

Teacher/Developer
eLegal e.V., https://www.elegal.technology/

📅 2019 Janurary – 2020 Janurary

`Teaching` `Java`

Designing a Java programming couse for law students based on a custom docx-based cease and desist generator. Indefinitely postponed due to COVID-19.