LARS QUENTIN

Computer Science Student, Programmer

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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.
- Maintenance of a FUSE based I/O metric streamer for HPC.
- Development of internal HUGO-based website.
- Research around encrypted metadata management using elasticsearch (ongoing).
- Teaching an external course around storage for "Auszubildene".

IT-Support and Web development

Max-Planck-Institut für biophysikalische Chemie

Linux

2017 September - 2021 Sept.

Göttingen

Client Support

Diango • 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

Python

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

| Linux | Python

- First programming experience in bash as well as Python2
- First experience with Linux Servers: LAMP and LXC

EDUCATION

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

abla 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



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

walkv

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 FTEX

- 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/

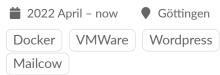
Teaching Java Apache POI

- 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



- 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 post-poned due to COVID-19.