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 elastic-search (ongoing).
- Teaching an external course around storage for “Auszubildene”.

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

- 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

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.