Thomas Kilian | Curriculum Vitae

not disclosed

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Some infinities are bigger than other infinities.

Undergraduate computer scientist. Passionate about science, with strong technical, business, and interpersonal skills for working in a team and successfully completing a project.

Employment / Volunteering

- **Technical University of Munich** — **Munich**
  Teaching Assistant (part-time) — *October 2016–March 2017*
  At the chair of computer technology and computer organization I am responsible for two tutorials of the lecture "Introduction to Computer Organization and Technology - Computer Architecture". My tutorials are visited by approx. 60 students (bachelor and master courses). Additionally I am available for consultation and will be grading the exams.
- **Ludwig-Maximilians-Universität** — **Munich**
  System Administrator (part-time) — *January 2015–today*
  At the faculty of physics, I am currently responsible for maintaining servers and user work stations. Particularly it is my job to check and apply security patches and ensure a smooth experience for our users. For the latter, I provide support in regard to computing and printing problems. I volunteered to give lectures for students at the faculty, e.g. as instruction to our operating systems and services or security lectures. I participated in various projects, such as deploying Gitlab (solely responsible, for testing purposes), maintaining an existing information tool displaying users and workload and currently implementing Apache Hadoop in our systems.
- **Coursera** — **Munich**
  Community Mentor (volunteer) — *June 2016–October 2016*
  As a Community Mentor I help other learners on Coursera with both technical and subject questions and help to provide an essential link between the instructors (and creators of the course) and learners. I also give feedback to Coursera and participate in monthly video conference meetings.
- **DB Netz AG** — **Passau**
  Station Master Intern — *September 2012*
  During a week-long internship at the local division of DB Netz AG - the infrastructure provider in the Deutsche Bahn concern - I learnt about the various systems playing together to make a train journey possible. I was able to learn to manually guide a train from start to its destination, about communication between various station and to handle emergencies.

Education

Academic Qualifications

- **Technical University Munich** — **Garching**
  Undergraduate Informatics (TUM) — *2015–today*

- **Ludwig-Maximilians-Universität** — **Munich**
  Undergraduate Physics — *2014–2015*
- **Gymnasium Leopoldinum** — **Passau**
  A levels, Final Grade: 1.4 (main subjects: Mathematics, German, English, Physics, History) — *2006–2014*

Completed Courses

- **Lab Course - Computer Architecture** *Grade: 1.7*
  Solving two term-long projects in assembly and microprogramming with two fellow students.
- **Fundamentals of Programming (Exercises & Laboratory)** *Grade: 1.0*
  Java Programming. Smaller problems had to be solved each week during the term. Included one final capstone project (with GUI).
- **Introduction to Computer Organization and Technology - Computer Architecture** *Grade: 2.0*
- **Introduction to Informatics 1** *Grade: 2.0*
- **Computational Methods (for physicists)** *Grade: 1.0*

Coursera Courses

- **Big Data Specialization (ongoing):** *'Big Data by University of California, San Diego', current Grade: 100%*
  "Drive better business decisions with an overview of how big data is organized, analyzed, and interpreted. Apply your insights to real-world problems and questions."
  The course involved both theory and practical training, e.g. graph analytics and ML applications. I could gain a large insight on Apache Hadoop's ecosystem and was able to work with it using cloudera's VM distribution. I am yet to complete the capstone project starting in June 2016.
- **Machine Learning Specialization (ongoing):** *'Build Intelligent Applications by University of Washington', current Grade: 100%*
  "This Specialization provides a case-based introduction to the exciting, high-demand field of machine learning."
  This course offers a far more theoretical approach to machine learning than the big data specialization did. What I like most about it, is the immediate application of knowledge in Python using Dato GraphLab via Jupyter Notebook.

Technical and Personal skills

- **Programming Languages:** Java (very proficient), Python (proficient), C/C++ (proficient), Assembly (advanced), VHDL (advanced), HTML/CSS/PHP (advanced) & full stack
- **Industry Software Skills:** Proficient in all major office software (both Apple and Microsoft, LibreOffice), using JetBrains products
- **Working with following OSs:** OSX, Windows, Linux Mint, Debian, Ubuntu, Arch Linux
- **General Business Skills:** presentation skills, team player
- **Other:** federally licensed Radio Amateur (call sign DF7TK, highest class)

Interests and extra-curricular activity

- As a radio amateur, I am eager to go beyond (technological) limits and exploring new territory.
- I am passionate about life and science and also philosophy. Therefore, I enjoy thinking out of the box.
- I absolutely love nature. I love roaming through green and wild scenery and going for walks with my wonderful wife. Also, I like taking the bike or going for a run.

References

- One reference available on request.