marcus**ding**

Student 🖥

contact

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www.kryptokommun.ist

languages

German (native)
English (C2)
Chinese (B1)

programming

C, Java, Python, typescript, machine learning, web development, CI, git (github.com /kryptokommunist)

education

2013 – 2015	**Studies: Bachelor in computer science/physics**	Humboldt-Universität zu Berlin

core subject: computer science
minor subject: physics

2015 – 2018	**Studies: Bachelor IT-Systems-Engineering**	Hasso-Plattner-Institute

grade: 1.6. Engagement as spokesperson (Klubsprecher) for the Makerklub.

2018 –	**Studies: Master IT-Systems-Engineering**	Hasso-Plattner-Institute

experience

2020 – 2020   Participant in Google Summer of Code   FreeCAD
From 17.05.2020 until 16.08.2020
Programming a Jupyter Notebook integration in Python for the open-source CAD program FreeCAD. The work was mentored by three experienced FreeCAD contributors.

2021 – 2021   Master project: Hingecore   Prof. Baudisch, Hasso-Plattner-Institute
From 01.03.2021 until 01.10.2021
Developing and implementing an algorithm for unfolding 3D-models into a 2D-plane. Implementation in typescript with a four-person team into an existing code base (kyub). Paper published at UIST22.

2021 – 2022   Global Team-Based Innovation course   Hasso-Plattner-Institute, Uni St. Gallen, LBBW
From 01.10.2021 until 30.06.2022
Working in a team of 3 HPI IT-System-Engineering and 3 Uni St. Gallen business students. Weekly presentations with the LBBW team and teaching assistants. Conducting interviews with small and medium-sized enterprises, documenting research results, developing design prototypes and a final prototype web application for risk analysis.

2018 – 2023   Working Student: IT Infrastructure   micropsi industries
From 01.09.2018 until 15.08.2023
Main person responsible for company office IT infrastructure, oversaw growth from 10 employees, 2 million VC funding to now 50 employees and 25 million VC funding. Managing dev ops systems (failure investigations/backups). Configuring the internal network (router/firewall/VLANs/DNS/DHCP/smart switches monitoring). Administration of internal services (Jenkins CI/Mail/Office365).

2023 – 2023	**Working Student: Software Development**	Planetary Transportation Systems

Started on 01.08.2023

Working as a part-time software developer on web apps and also hardware development for an STM32-based cube sat onboard computer.

2019 –	**Freelance Programmer**	Berlin, Germany

Started in 2018

Planning and programming software projects mostly in Python/Java (Recent example for an installation to be featured at Ars Electronica 2019: Github link). The work involved designing software systems from the ground up as well as adding features to an existing code base.

other

2018 –	**XStage**	experimental stage project

I am a member of the project and have set up, maintained, and designed science communication and art installations for festivals and conferences.

Setting up science communication and art stages and exhibitions. Creating and maintaining hardware installations. Using 3D printing, microcontrollers, programming, user research, creativity.

2018	**Design Thinking Basic Track**	School of Design Thinking

Took a one-semester course Design Thinking Basic Track.

Applying the user-centered innovation principles of Design Thinking in a interdisciplinary student team to problems from external project partners.

2022	**Mindful Leadership Training**	Spirit Rock Meditation Center

Completed 9 month training program with Nikki Mirghafori, PhD and Marc Lesser, MBA.

Learned and practiced mindful, compassionate, values-aligned leadership. Cultivating well-being: self-care, rest, and resilience. Self-awareness and self-management: emotional intelligence and working with difficult emotions. Transforming professional and personal relationships through embodied, skillful communication. Empowering and inspiring people and teams Fostering and co-creating belonging

interests

bhuddism & meditation, embodiment, sailing, artificial general intelligence, light installations, deep learning, tinkering with electronic hardware, blogging, traveling