

# marcusding

Student 

## contact

Berlin, Germany

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www.kryptokommun.ist

## languages

german (native)

english (C2)

chinese (B1)

## programming

Python, Java,  
Typescript, C++, ML,  
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

- 2015 – 2016 **Hasso Plattner Institute** Potsdam, Germany  
*Instructor for Pupils Academy (Schülerkolleg)*  
From 01.10.2015 until 12.03.2016  
Mentoring 8th graders and teaching them programming with the help of hardware boards (Phidgets).
- 2018 – 2019 **DB System** Berlin, Germany  
*Bachelorproject: IoT & Blockchain - Rail2X SmartServices*  
From 01.10.2017 until 30.09.2018  
Exploring blockchain as a technology for issuing delay vouchers and developing a working prototype. Programming the backend server (REST-API and Blockchain-Framework).
- 2018 – **micropsi industries** Berlin, Germany  
*Working Student: IT Infrastructure*  
Started on 01.09.2018  
Managing dev-ops systems (failure investigations/backups), configuring the internal network (firewall/VLANs/DNS/DHCP/monitoring). Administration of internal services (Jenkins CI/Wiki/Prometheus).
- 2019 – **Free Lance Programmer** Berlin, Germany  
*Planning and implementing medium-size software projects*  
Started 2018  
Programming software projects mostly in Python/Java (Example work 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 codebase.
- 2020 **Google Summer of Code** Berlin, Germany  
*Participant in GSoC*  
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.

## other

- 2016 **Machine Learning Competition** Data Mining Cup  
*Reached 7th place out of 120 teams from 88 universities in 30 countries as part of team Uni\_Potsdam\_1.*  
The aim was to use given data and methods of data mining to build a model which enables a good prediction of return rates for an online fashion store.
- 2018 **Design Thinking Basic Track** School of Design Thinking  
*Took a one-semester course learning and practicing Design Thinking.*  
Applying the user-centered innovation principles of Design Thinking in a student team to problems from external project partners.
- 2019 **Light art installation at Garbicz Festival** Garbicz Festival  
*Conceptualized and developed a light-art installation for the Garbicz Festival art forest.*  
The light installation consisted of twelve illuminated aluminum bars hanging on steel cables between trees. The work was presented during the 2019 Garbicz Festival.

## interests

sailing (Hobie Cat/Yacht), bouldering, artificial general intelligence, visual art, light installations, psychology, deep learning, tinkering with electronic hardware, blogging