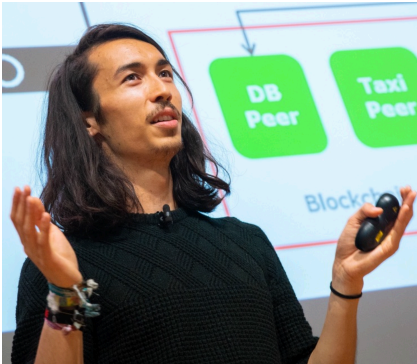# Marcus Ding

www.kryptokommun.ist/portfolio | marcusding@me.com | +49 176 XXXXX

EDUCATION

HASSO-PLATTNER-INSTITUTE

MSc IT-Systems-Engineering
2020-2022, 2025 - present
Writing thesis after 2 year sabbatical focusing on art and mindfulness.

BSc IT-Systems-Engineering
2015 - 2018
Grade: 1.6. Served as spokesperson (Klubsprecher) for Makerklub.

SKILLS

Programming
C, C++, Java, Python, TypeScript
DevOps & Infrastructure
Docker, Git, CI, Jenkins, Linux
AI & Data Science
PyTorch, OpenCV, scikit-learn
Web Development
Three.js, React, Flask, MySQL

Languages
German (C2), English (C2), Chinese (B2)

LINKS

Github:// **kryptokommunist**
LinkedIn:// **kryptokommunist**
Portfolio:// **kryptokommun.ist**
Twitter:// **kryptokommunist**

EXPERIENCE

ROLLS-ROYCE | Software Engineer | Part-Time
May 2025 - | Berlin, Germany
- Developing Machine Learning applications for automating turbine time series test data and DevOps applications.

PLANETARY TRANSPORTATION SYSTEMS | Software Engineer
May 2023 - Dec 2023 | Berlin, Germany
- Developed full-stack web applications with Flask, MySQL, React stack for customer Zeitfracht.
- Developed satellite onboard computer software for a CubeSat (STM32, FreeRTOS, C++).

MICROPSI INDUSTRIES | IT Infrastructure & DevOps Engineer
Sep 2018 - May 2023 | Berlin, Germany | Part-Time
- Led IT infrastructure scaling from 10 to 50 employees, while valuation grew from $2M to $25M.
- Optimized DevOps workflows, implementing CI/CD pipelines, cutting deployment time by 60%.
- Managed network configurations and internal services, ensuring 99.99% uptime.

FREELANCE | ML & Software Engineer
2018 - 2020 | Berlin, Germany
- Implemented a deep learning model for human path prediction in interactive theater (PyTorch, PyQT5).
- Designed a multi-modal AI system on Jetson Nano for Ars Electronica, translating images into sound and vice versa, improved inference time 10x.

HASSO-PLATTNER-INSTITUTE HCI LAB | Researcher
Mar 2021 - Oct 2021 | Potsdam, Germany
- Developed algorithms for unfolding 3D models into 2D, implemented in TypeScript.
- Published at UIST22.

OTHER ACTIVITIES

XSTAGE MEMBERSHIP | Experimental Stage Project
2018 - Present
Built interactive science communication installations using microcontrollers, and 3D printing for festivals and conferences with 3000 - 100.000 visitors each.

MINDFUL LEADERSHIP TRAINING | Spirit Rock Meditation Center
2022 | Online
Completed a 9-month training program focusing on emotional intelligence, resilience, and skillful communication in leadership.

DESIGN THINKING BASIC TRACK | dSchool
2018 | Potsdam, Germany
Designed and prototyped solutions for real-world challenges from industry partners with a human-centered design.