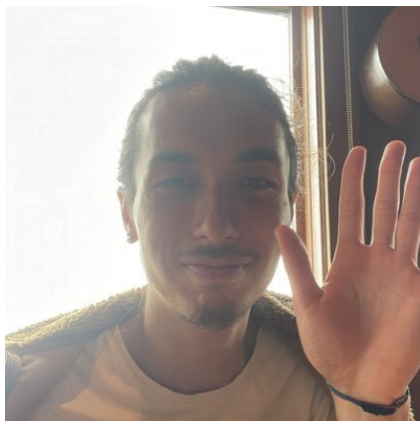


Marcus Ding

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EDUCATION

HASSO-PLATTNER-INSTITUTE

MSc IT-SYSTEMS-ENGINEERING

2020 - 2022, 2025 - present

Resumed MSc after sabbatical exploring 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

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 and containerized deployments.
- Managed network configurations and internal services, ensured no major outages.

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.

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.

FREECAD — GOOGLE SUMMER OF CODE | INTERNSHIP

May 2020 - Aug 2020 | Berlin, Germany

Implemented Jupyter Notebook integration for FreeCAD, enhancing scriptability for open-source CAD software.

OTHER ACTIVITIES

XSTAGE MEMBERSHIP | EXPERIMENTAL STAGE PROJECT

2018 - Present

Built interactive 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.