CHRISTOPHER HARTH-KITZEROW

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EDUCATION

PhD Secure Multiparty Computation, Technical University of Munich (TUM)   since Dec 2020

MSc Information Systems, Technical University of Munich (TUM), **GPA: 1.4/1.0**   Apr 2018 - Mar 2021

BSc Information Systems, University of Münster (WWU)   Oct 2014 - Mar 2018

Experience abroad: **Shanghai Jiaotong University**, China (2019, one semester), **University of Sydney**, Australia (2017, Bachelor Thesis + Research Assistant, 3 months), **Soochow University**, Taiwan (2016, one semester)

TECHNICAL SKILLS

Proficient	C++, Python, Java, Javascript
Familiar	PyTorch, Tensorflow, MySQL

EXPERIENCE

Promotion Candidate - Secure Multiparty Computation (MPC) - Cryptography   since Dec 2020
BMW Group, *Munich*

- Designed novel MPC protocols that outperform state-of-the-art ones by up to two times. Implemented open-source frameworks in *C++* that outperform existing ones by up to three orders of magnitude.
- Worked together with business departments to build use case prototypes using Federated Learning, Privacy Preserving Machine Learning, and MPC.

Working Student - 5G Research and Development   Jun 2020 - Nov 2020
Huawei Technologies, *Munich*

- Developed scripts and mobile applications to monitor and evaluate the 5G connection of user devices using *Python* and *Android Studio*.

Intern - Blockchain Research and Development   Mar 2019 - Aug 2019
BMW Group, *Munich*

- Developed iOS and Android applications that interact with an Ethereum Blockchain using *Flutter (Dart), Web3, Solidity*.

Research Assistant - Applied Analytics   Oct 2017 - Dec 2017
The University of Sydeney, *Sydney*

- Developed a research framework to classify People Analytics solutions

Student Teaching Assistant - Various Computer Science Classes   Apr 2016 - Sep 2017
University of Münster, *Münster*

- Assisted in teaching and grading for the courses *Datastructures and Algorithms* (two semesters) and *Computer Structures and Operating Systems* (one semester).

HONORS & AWARDS

Google Munich Hackathon 2019 Won **first place** for building an **app** that teaches how to code (20+ teams).

DMC Analytics Cup 2019 Ranked 30 out of 500+ solutions. **Machine learning** challenge using R.

Google Munich Hackathon 2018 Won **first place** for building a flashcard training **chatbot** (22 teams).

Intercultural Certificate Awarded by the university for **mentoring** incoming exchange students, helping at events.

Volunteering Certificate Issued by SBH-West for **tutoring** high-school students who cannot afford paid lessons.