

Philipp Kant



<https://www.kant.dev>

[GitHub](#) [LinkedIn](#) [✉ philipp@kant.dev](mailto:philipp@kant.dev)

[📍 Aachen, Germany](#) [🏠 1995](#)

Work Experience

Since 01/2024 **Software Developer**, *Digitize! GmbH*, Krefeld

- Automation of digital processes for customers
- Developing data-driven solutions

01/2023 – 01/2024 **Working Student Deep Learning**, *MABRI.VISION GmbH*, Aachen

- Development and implementation of deep learning models in the field of machine vision
- Conducted research and applied state-of-the-art deep learning techniques to improve model accuracy and efficiency
- Contributed to data preprocessing, augmentation, and analysis to enhance training datasets
- Assisted in troubleshooting and refining machine learning models based on performance metrics

04/2020 – 08/2020 **Working Student Web Development**, *Deutsche Stadtmarketing GmbH*, Krefeld

- Migration of product databases to a new Product information management (PIM) system
- WordPress Web Development and linkage of an inventory management software to WooCommerce

03/2017 – 06/2017 **Computer Graphics Intern**, *iPattern - Institute for Pattern Recognition*, Krefeld

- Software development as part of the "Krefeld 3D City Model" (C++)
- Texture generation using point clouds (Point Cloud Library, OpenCV)

08/2013 – 03/2014 **Software Developer**, *CITYGUIDE AG*, Krefeld

- iOS App Development with Objective-C
- Independent and team-oriented implementation of projects

05/2013 – 07/2013 **Software Development Intern**, *CITYGUIDE AG*, Krefeld

- Support and maintenance of the software products created in the company

Education

09/2018 – 12/2023 **Master of Science, Computer Science**, *RWTH Aachen University*, Aachen

Specializing in: Data Science, Machine Learning
Master's thesis: "Development of a CycleGAN for Semantic Segmentation of Nano-CT Images of Lithium-Ion Batteries with Limited Labeled Data"

03/2018 – 09/2018 **Master of Science, Computational Science**, *University of Potsdam*, Potsdam

09/2013 – 01/2018 **Bachelor of Science, Computer Science**, *Hochschule Niederrhein*, Krefeld

Bachelor's thesis: "Statistical Analysis of Risk Factors for Wars"

08/2013 – 03/2014 **Training as IT specialist**, *CITYGUIDE AG*, Krefeld

Discipline: Application Development
In connection with a dual course of study at Hochschule Niederrhein

09/2005 – 07/2013 **A Levels**, *Maria-Sibylla-Merian-Gymnasium*, Krefeld

Major subjects: mathematics and physics

Volunteering

09/2022 – 03/2023 **BeBuddy International Student Mentor**, *RWTH Aachen University, International Office*, Aachen

- Actively supported and mentored two international students from Russia and Ukraine
- Facilitating their adjustment to university life and acclimatization to a new cultural environment

Skills

Languages	German (Native), English (Fluent, C1), Spanish (Basic knowledge, A1)
Prog. languages	Python, Javascript, SQL, C/C++
Web Development	Node.js, Express, React, HTML, CSS, REST, Figma
Data Science	Pandas, Matplotlib, NumPy, Jupyter, RapidMiner
Machine Learning	PyTorch, Spark, Scikit-learn, NLTK
Other	PostgreSQL, MongoDB, GNU/Linux, Git, Bash, Vim, L ^A T _E X, Gurobi, OpenCV

Publications

- Steffen Goebbels, Regina Pohle-Fröhlich and Philipp Kant: **A Linear Program for Matching Photogrammetric Point Clouds with CityGML Building Models**. Proceedings Operations Research 2017, Springer, Berlin, 2018, S.129-134