

# Tarek Akrouit

✉ [Email](#)   [in](#) [LinkedIn](#)   [G](#) [Github](#)

## EDUCATION

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**Technical University of Munich, M. Sc in Computer Science** Oct 2024  
*Munich, Germany*

**Technical University of Berlin, B. Sc in Computer Science (1.7)** Oct 2021 – Sept 2024  
*Bachelor thesis on Quantization-aware training for neural network*  
*Berlin, Germany*

## EXPERIENCE

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**TU Berlin** Apr 2024 – Oct 2024  
*Tutor and student assistant*  
*Berlin, Germany*

- Guided students in solving assignments for the “Algorithms and Data Structures” course.
- Developed an automated exam generation and grading pipeline in Python for the “Python for Machine Learning” course.
- Assisted in organizing, and grading exams.

**Siemens Mobility** Jul 2022 – Oct 2023  
*Working student : Web developer*  
*Berlin, Germany*

- Used web APIs to integrate data from different systems into our databases.
- Assisted in the design and architecture of databases.
- Created multiple KPI dashboards and produced user-friendly frontend views, including map displays and Gantt charts, to enhance data comprehension.

**1&1 Telecommunication SE** Jan 2022 – Jun 2022  
*Working student : Software developer*  
*Berlin, Germany*

- Wrote YAML files and SQL queries in order to improve system monitoring and performance evaluation.
- Prepared Grafana dashboards for better data visualization.

## ONLINE COURSES

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**Convolutional Neural Networks** | Jun 2021

**Structuring Machine Learning Projects** | May 2021

**Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** | May 2021

**Neural Networks and Deep Learning** | Apr 2021

## PROJECTS

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**ML:** Quantization-aware training for VAEs and diffusion models, Neural Style Transfer, basic entity resolution pipeline.

**Web development:** Implementation of a Kanban board.

**Computer Graphics:** Shading and Texture mapping using glsl.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C, C++, SQL, TypeScript, Haskell, Prolog.

**Technologies:** PyTorch, Numpy, Matplotlib, git, Spark **and basics of** : Vue.js, Express.js and docker.

## LANGUAGES

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Arabic, French, English (C1), German (C1)