

# Mohamed Chamharouch Aukili

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📁 mohamed-c-a.github.io

## EDUCATION BACKGROUND

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**Dortmund University of Applied Sciences and Arts (FHDO)**

*M.Sc., Computer Science, Specialization in Computer Engineering*

**Dortmund, Germany**

*Sept. 2024-Present*

**Dortmund University of Applied Sciences and Arts (FHDO)**

*B.Sc., Computer Science, Specialization in Computer Engineering*

**Dortmund, Germany**

*Sep. 2020-Sep. 2024*

Grade: 1.6/5 equiv. GPA: 85.0/100

**Leopold-Hoesch-Berufskolleg (LHB)**

*Zweijährige Höhere Berufsfachschule für Metalltechnik*

**Dortmund, Germany**

*Aug. 2018-Sep. 2020*

Grade: 1.5/5 equiv. GPA: 87.5/100

## PROFESSIONAL EXPERIENCE

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**SpiraTec AG (SPT)**

*AI/ML Engineer & Consultant*

**Dortmund, Germany**

*Mar. 2024-Present*

- Agile Development (Scrum) and project management
- Consulting on AI/ML strategies and implementations
- Development of CV & NLP solutions

**Dortmund University of Applied Sciences and Arts (FHDO)**

*Research/Student Assistant & IT Support*

**Dortmund, Germany**

*Apr. 2022-Feb. 2024*

- Responsible for managing the cloud-based database service ARIS
- Contribution to the planning and execution of exams via the evaexam system
- Experience in Identity and Access Management (IAM)

## SKILLS

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- **Core Competencies:** Communication, Teamwork, Analytical & Solution-Oriented Thinking, Leadership & Ownership
- **Programming Languages:** Python, Java, C/C++
- **Backend & Frontend:** RESTful APIs, FastAPI, Spring Framework, Spring Boot/Cloud, HTML, CSS, JavaScript (JS), Gradio
- **Database & Storage Systems:** SQL, MySQL, PostgreSQL, MariaDB, Qdrant (vector database)
- **Machine Learning:** CRISP-DM, data preprocessing and feature engineering (NumPy, pandas, SciPy), classical ML (scikit-learn), deep learning (PyTorch), model training and evaluation, MLOps
- **Specialized Domains** Computer Vision (CNN, Ultralytics (YOLO), Roboflow, CVAT, CVOps), NLP with LLMs (SLMs, RAG, chatbots, self-hosted models, LLMOps), Multi-Agent AI Systems (MAAS)
- **DevOps & Version Control:** Containerization with Docker, virtualization (VMware, VirtualBox), CI/CD pipelines, SecDevOps, GitHub, GitLab, OneDev
- **Research & Academic Skills:** Systematic literature reviews (PICOC, PRISMA), use of tools such as Parsifal, critical reading and synthesis of scientific papers, academic writing (German/English), LaTeX, preparation of scientific presentations and reports

## VOLUNTEERING

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**Dortmund University of Applied Sciences and Arts (FHDO)**  
*Project Manager & Lead Engineer of FHydrate (Student Project)*

**Dortmund, Germany**  
*Sep. 2024-Feb 2025*

- Smart IoT for resource-efficient tree irrigation.
- Led 5 cross-functional teams.
- Re-architected legacy backend into a scalable system.
- Deployed the first successful production deployment of the FHydrate app.

**Leopold-Hoesch-Berufskolleg (LHB)**  
*Schüler helfen Schülern (Students helping Students)*

**Dortmund, Germany**  
*Feb. 2020-June 2020*

- Part of the “LHB tutor team”, a registered JUNIOR student company.
- Funded by the Federal Ministry for Economic Affairs and Energy (BMWK).
- Supported by the German Economic Institute (IW) and partners at that time (2020): Citi Foundation, AT&T, Gesamtmetall, Deloitte-Stiftung and AXA.

## ADDITIONAL INFORMATION

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### Languages:

- **Native or bilingual proficiency:** Spanish, Catalan & Tamazight (spoken in northern Morocco)
- **Full professional proficiency:** German
- **Professional working proficiency:** English

**Interests:** Sports, Football, Reading, Traveling, Photography