

# Mohamed Chamharouch Aukili

Uhlandstr. 25, 44147 Dortmund

✉ +491639056149 • ✉ mohamed.chamharouchaukili@hotmail.com

✉ mohamed-c-a.github.io

## EDUCATION BACKGROUND

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

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

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

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

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

**Dortmund, Germany**

Sept. 2024-Present

**Dortmund, Germany**

Sep. 2020-Sep. 2024

### Leopold-Hoesch-Berufskolleg (LHB)

*Zweijährige Höhere Berufsfachschule für Metalltechnik*

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

**Dortmund, Germany**

Aug. 2018-Sep. 2020

## PROFESSIONAL EXPERIENCE

### SpiraTec AG (SPT)

*AI/ML Engineer & Consultant*

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

**Dortmund, Germany**

Mar. 2024-Present

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

*Research/Student Assistant & IT Support*

- 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)

**Dortmund, Germany**

Apr. 2022-Feb. 2024

## SKILLS

- **Core Competencies:** Communication, Teamwork, Analytical & Solution-Oriented Thinking, Leadership & Ownership
- **Programming Languages:** Python, Java, C/C++, Bash
- **Backend & Web Technologies:** RESTful APIs, FastAPI, Spring Framework, Spring Boot/Cloud, Apache, HTML, CSS, JavaScript (JS)
- **Database & Storage Systems:** SQL, MySQL, PostgreSQL, MariaDB, vector databases (Qdrant)
- **Machine Learning:** CRISP-DM, data preprocessing and feature engineering (NumPy, pandas, SciPy), classical ML (scikit-learn), deep learning (PyTorch), model training and evaluation
- **Specialized Domains** Computer Vision (YOLO, Roboflow, CVAT), NLP with LLMs (SLMs, RAG, chatbots, self-hosted models), Multi-Agent Systems (MAS)
- **DevOps & Version Control:** Containerization with Docker, virtualization (VMware, VirtualBox), CI pipelines, SecDevOps, GitHub, GitLab, OneDev
- **Research & Academic Skills:** Systematic literature reviews (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

---

**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

---

**Languages:**

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

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