

Mohamed Chamharouch Aukili

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EDUCATION BACKGROUND

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

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

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

- **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-Agentic 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

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

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