

Mohammed Al-Laktah

IT Systems Administrator · Cloud & Infrastructure

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Profile

IT systems administrator with a B.Sc. in Computer Science from RWTH Aachen University. At a fast-growing deep-tech semiconductor startup, I run identity, security and endpoint infrastructure on Microsoft Entra ID, Intune and Jamf, including SSO migrations, privileged access management and CIS hardening. Previously I administered Linux research servers at RWTH, and I operate a Proxmox and Docker homelab. Focused on growing into cloud, infrastructure and DevOps engineering. Languages: German (C1, DSD-II), English, Arabic.

Education

Aug. 2020 – Mar. 2025 **RWTH Aachen University**

Bachelor of Science in Computer Science

- Focus areas: Machine Learning, Process Mining, Software Engineering
- Bachelor Thesis: *"Automated Correction of Medical Reports Using Open-Source Language Models"*

Work Experience

June 2026 – Present **Junior System IT Administrator**

Black Semiconductor GmbH - Aachen

- Migrated HR provisioning and SSO from JumpCloud to Microsoft Entra ID (Personio SCIM/SSO)
- Introduced Entra Privileged Identity Management with a tiered, just-in-time admin role model
- Brought Windows endpoints to CIS Level 1 with Intune, Autopilot and Windows Autopatch
- Rolling out Platform SSO and CIS hardening across ~150 Macs with Jamf Pro
- Rolled out Intune app protection (MAM) policies based on Microsoft's data protection framework
- Built Azure Monitor workbooks that detected and helped remediate account-compromise attempts
- Migrated a finance application server to an Entra-joined, Intune-managed VM
- Building a pipeline that moves lab-instrument data to an AWS-hosted VM for processing
- Packaged and deployed an enterprise AI client for macOS and Windows in a company-wide rollout

Apr. 2022 – Aug. 2026 **IT Administrator - Student Assistant**

Chair of Computational Economics - RWTH Aachen University

- Administered research servers (Ubuntu) including hardware and software support
- Developed and optimized five websites (CMS, performance, SSL, dark mode, multilingual features)
- Onboarded new employees and managed department hardware, software and licenses
- Acted as liaison between the chair and the RWTH IT Center

Oct. 2023 – Apr. 2025 **Software Developer – Working Student**

Institute for Process Metallurgy and Metal Recycling - RWTH Aachen University

- Planned and implemented SQL databases for research data
- Developed a Python-based proof-of-concept visualization tool for data analysis
- Built, maintained, and updated the institute's website

Skills

Cloud & Identity	Microsoft Entra ID (PIM, Conditional Access, SSO/SCIM), Intune, Azure Monitor, AWS, Oracle Cloud
Systems & Scripting	Linux (Ubuntu, AlmaLinux), Proxmox VE, Docker, Jamf Pro, Windows, macOS, Bash, PowerShell, Zsh
Automation & Tools	Git, GitHub, GitLab, Ansible, Terraform, Jira, Microsoft 365, DBeaver
Networks & Protocols	TCP/IP, MPLS, HTTP/S, DNS, SSH, WireGuard VPN, Firewalls, Load Balancers
Programming & Databases	Python, SQL (MySQL, PostgreSQL), JavaScript, React, HTML, CSS, PHP, WordPress

Projects

Homelab Oct. 23 – Present	Self-hosted lab on Proxmox VE, Linux servers (AlmaLinux) and a Synology NAS • Virtualization: Proxmox VE host running VMs and Docker containers • Networking: network-wide DNS with Pi-hole, remote access via WireGuard VPN • Services: Home Assistant + Zigbee2MQTT, Heimdall, LanguageTool, Ollama, internal wiki
LLM-Tools Jul. 23 – Nov. 24	Command-line tools built for my bachelor thesis to test and evaluate LLMs (Python, Ollama, Pandas, NLTK, SQLAlchemy, Matplotlib) • generate: Automated generation with multiple models and prompts • evaluate: Automated evaluation of outputs using various metrics • graph: Produced diagrams and comparative visualizations
LTL-Checker Oct. 22 – Jan. 23	Web application for LTL checking - GitHub • Backend: RESTful API with Python, Flask, PM4PY • Endpoints: Applied PM4PY LTL filters on process logs • Conformance checking: Produced deviation reports