

Mountaser Halak

Systems Administration · IT-Support · Network Technology

Stuttgart Area, Germany-

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State-certified Technical Assistant for Information and Communication Technology

B.Sc. Business Information Systems and Digital Media · HdM Stuttgart · Expected Graduation 02/2029

Availability: Available immediately as working student (20 hrs/week) · Full-time available until Sept 30, 2026

Work Authorization: Permanent Residence Permit (Germany)

PROFILE

State-certified Technical Assistant for Information and Communication Technology, aktuell im B.Sc. Wirtschaftsinformatik an der Hochschule der Medien.

Operates self-hosted server and network infrastructure for years: homelab server running Unraid with virtual machines, Docker containers, Nginx-reverse proxy, VPN, and network-wide DNS.

Eigener Android-kernel with automated nightly Jenkins-builds, publicly verifiable as an XDA Recognized Developer – proven track record, not just claims.

2.5 years experience as a customer-facing working student at DB Regio AG alongside full-time studies: calm, solution-oriented communication even in high-conflict situations.

IT-SKILLS

Servers & Operating Systems: Windows Server, Active Directory, Group Policy, DNS, DHCP · Linux: Debian, Ubuntu, Arch · Nginx, Server Administration

Networking: Routing, Firewall, DNS/DHCP, Reverse Proxy, Dynamic DNS · VPN: WireGuard, OpenVPN · TLS-Certificates with Let's Encrypt · Enterprise Network Planning & Configuration

Virtualization & Containers: VMware vSphere/ESXi, VMware Workstation · KVM/QEMU, Unraid · Docker

Automation & CI/CD: Jenkins, Bash, Shell-Scripting, Batch-Scripting · Git: GitHub, GitLab, Branching, Code Reviews

Storage & Backup: NAS, RAID 0–10, ZFS, Snapshot- und Backup-Concepts

Programming: C/C++, Java, JavaScript, Python

Embedded & Hardware: Android/AOSP, Kernel, SELinux · Raspberry Pi, Arduino, ESP · Soldering & Microsoldering

AI & Agents: GPT, Gemini, Claude, OpenRouter · local models: Ollama, DeepSeek · Multi-Agenten-Workflows

Design & Media: Photoshop, InDesign, Premiere Pro, After Effects

PROJECTS

Android / AOSP

Custom-ROM & Kernel-Development for Android

XDA Recognized Developer since May 9, 2018 · xdaforums.com/m/mountaser-halak

- Moun Kernel: Custom Android-kernel featuring four CPU governor-profiles to optimize battery life and performance
- Ported and maintained CyanogenMod and Resurrection-Remix-ROMs, maintaining up to 10 devices simultaneously
- Device Trees: Cherry-picking fixes, debugging build-errors, extracting and shimming vendor-binaries
- Automated nightly builds powered by Jenkins · github.com/mountaser/Moun_Kernel_Tissot

Homelab

Custom-Built Homelab Server – NAS, Virtualization, Smart Home

Self-planned, built, and operated infrastructure using repurposed hardware

- Unraid with virtual machines and Docker-containers, NAS-storage with ZFS
- Previously managed leased bare-metal-server virtualized and administered with VMware vSphere/ESXi
- Nginx-reverse proxy, Pi-hole network-wide DNS, Dynamic DNS, external VPN-access
- Home Assistant for voice automation, connected to Google Cloud API over HTTPS custom domain

Java / Android

Rebranding & Customization of Commercial Radio-App

Commercial client project for an enterprise customer

- Rebranded commercial app: logos, color palette, copy, themes, and navigation
- Custom extensions: video-splash screen, streaming-API, Firebase, OneSignal-push notifications, direct web & social-links

Embedded / IoT

Electronics & IoT-Projects

Arduino, ESP, Raspberry Pi · Soldering & Microsoldering

- RFID Security System: Vocational college capstone project (Grade: Very Good / 1.0)
- ESP-Projects, u. a. Steuerung adressierbarer LEDs mit Anbindung an Home Assistant

Medien

Personal Tech Channel: Videos on Android-System Software & PC-Hardware

Ein-person-production: scriptwriting, camera, video editing, audio, motion-design, and graphics

- Technical explainer videos on Custom-ROMs, Project Treble, OS-installation, and processor/hardware-comparisons
- Complex technical topics explained clearly for a non-technical audience
- Regular live streams with direct audience interaction
- Camera operation & co-direction for a music video production

WORK EXPERIENCE

11.2023 – 06.2026

Ticket Inspector & Passenger Service-VVS Network · DB Regio AG

- Working student position via Job Valley staffing agency, approximately 2.5 years alongside full-time studies
- Ticket inspection and passenger service throughout the VVS-VVS Network
- Confident, customer-oriented approach even in conflict situations

07.2023 – 09.2023

Passenger Information & Promotion · DB Regio AG

- Passenger guidance and support during main railway line (Stammstrecke) closure in VVS-VVS Network

03.2023 – 07.2023

Student Auxiliary Roles in Retail & Reception

- Cashier and customer support at GALERIA Karstadt Kaufhof
- Additional roles: dm--drogerie markt, GEHE Pharma Handel, Modehaus Zinser

EDUCATION

seit 10.2025

B.Sc. Business Information Systems and Digital Media · Stuttgart Media University (HdM)

- Standard study period 7 semesters, on schedule – expected graduation 02/2029

09.2022 – 08.2025

B.Eng. Computer Engineering · Esslingen University of Applied Sciences

- Transferred degree program to Stuttgart Media University

09.2020 – 07.2022

Vocational College for Information & Communication Technology · DAA Stuttgart

- Abschluss: Fachhochschulreife sowie Berechtigung zur Führung der Berufsbezeichnung „State-certified Technical Assistant for Information and Communication Technology“
- Core Focus: Enterprise network planning, installation & configuration – Windows Server, Active Directory, DHCP, Firewall, Web Server, VMware Workstation, Batch-Scripting
- Capstone Project: RFID Security System (Grade: Very Good / 1.0)

INTERNSHIP

02.2016

High-Performance Computing Center Stuttgart (HLRS) · 2--week school internship

- Fortran-programming course, system administration support, server replacement and maintenance

LANGUAGES

- German: Business Fluent
- English: Business Fluent – Oxford Placement Test, C1 Level (2024)
- Arabic: Native Speaker