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Professional Experience

Porsche Digital GmbH

Intern, Vehicle Solutions & Data

Ludwigsburg, Germany

Oct 2025 – Present

Vehicle Software Infrastructure

- Built and maintained CI/CD pipelines for containerized application deployments on embedded Linux platforms across multiple hardware architectures
- Developed and deployed containerized backend services on custom embedded hardware targets
- Implemented an Over-the-Air (OTA) update mechanism with automated version checks, fallback logic, health monitoring, and service orchestration
- Automated build, tagging, deployment, and update workflows across development and target environments

Edge AI Computer Vision Prototype

- Developed a real-time computer vision prototype processing dashcam footage on embedded edge hardware using GStreamer and YOLO for object detection (vehicles, pedestrians, environmental elements)
- Implemented the full perception pipeline: preprocessing (resizing, color conversion, normalization), inference, post-processing (non-maximum suppression, filtering), and output generation
- System produced a processed video stream with visual overlays and structured metadata driving ambient light feedback signals for driver awareness in low-visibility conditions

Internal Technical Evaluation

- Contributed to an early-stage internal project where the technical direction was still being shaped
- Investigated and compared tools, technologies, and architectural approaches; tested options, documented findings, and prepared internal summaries and recommendations

Recognized by supervisor for high initiative, structured problem-solving, and clear technical communication.

Collaborated in a cross-functional Scrum team with sprint planning, code reviews, and architectural discussions.

Javna Mobile Media & Technology Solutions

Intern, Backend Development

Amman, Jordan

Jun 2024 – Jul 2024

- Developed RESTful APIs using ASP.NET Core for mobile and web applications
- Designed relational data models and implemented CRUD functionality with Entity Framework Core and MySQL
- Optimized API performance through query tuning, caching, and structured backend refactoring
- Collaborated with frontend and product teams to integrate backend systems with user-facing features

Projects

EFQM/RADAR AI Report Analyzer for KACE

In Development

RAG, LLM Agents, Document Analysis, Python

- Leading a team of five to build an agentic RAG pipeline for automated analysis of EFQM self-assessment reports using local LLMs (no external APIs) to ensure data confidentiality
- System detects conflicts and gaps in report content, generates structured assessor reports based on the RADAR scoring methodology, and benchmarks human assessor quality
- Teaching all team members from scratch, coordinating task distribution, and driving technical decisions

EUNO: ML-Based Mood Tracker (Graduation Project)

Oct 2024 – Mar 2025

Random Forest, SMOTE, FastAPI, Flutter, Python

- Designed and implemented a complete ML pipeline including data preprocessing, feature engineering, and model training
- Trained a Random Forest classifier achieving 87% accuracy (ROC AUC 0.95) with SMOTE for class imbalance handling
- Built a FastAPI backend serving real-time predictions via REST API, integrated with a Flutter mobile application

Yoga Studio Management Platform

Mar 2024 – Jul 2025

Flutter, React.js, ASP.NET Core, MySQL, RBAC

- Built a full-stack system: Flutter mobile app for member booking and subscriptions, React.js admin dashboard for class and member management, and ASP.NET Core REST backend
- Implemented role-based access control and designed the API layer connecting mobile and web clients to a shared relational database

Autonomous Robotics System (YOLO + LiDAR)

2025

YOLO, LiDAR, Robotics, Path Planning, Sensor Fusion

- Implemented object detection, obstacle avoidance, and environment mapping using YOLO and LiDAR sensor fusion
- Developed path planning logic using detected objects as navigation waypoints; demonstrated through simulation and real-time processing experiments

Automated Shopping / Retail Automation Prototype

2025

YOLO, Camera Systems, Robotic Arm Integration

- Developed fruit recognition and grasp-point detection using YOLO, integrated with camera input and robotic arm control for closed-loop retail automation

Kotlin Driver/Admin Mobile App

May – Jun 2024

Kotlin, Firebase Realtime Database, Material Design

- Built a dual-interface logistics app with separate driver and admin views, role-based authentication, and real-time task management via Firebase

Education

German-Jordanian University (GJU)

Amman, Jordan

Bachelor of Science in Computer Science

Sep 2021 – 2026

Focus: Artificial Intelligence, Software Engineering, Web Technologies

Trier University of Applied Sciences

Trier, Germany

Exchange Semester, Computer Science

Mar 2025 – Aug 2025

Focus: Robotics, Computer Vision, AI

Technical Skills

Backend & Systems: Python, C++, Rust, C#, ASP.NET Core, REST APIs, FastAPI

DevOps & Platforms: Docker, CI/CD Pipelines, Linux, systemd, Shell Scripting, Git

AI / ML: YOLO, Random Forest, Computer Vision, LiDAR, GStreamer, SMOTE, RAG, LLM Agents

Frontend / Mobile: Flutter, React.js, Kotlin

Databases: MySQL, Firebase Realtime Database, SQLite

References

Name: Dr. Ahmad Barghash

Position: Associate Professor of Computer Science

Institution: German-Jordanian University

Relationship: Academic supervisor (EUNO graduation project)

Note: Ranked me in the top 5% of students he has supervised;
recommended me for consultation positions

Additional professional references available on request.

Languages

Arabic (Native)

English (C2)

German (B1+)