Flamur Maliqi

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EDUCATION

Technical university of Ingolstadt

Ingolstadt

Bachelor of Science

Expected March 2026

Major in Computer Science Cumulative GPA: 3.5/4.0;

Relevant Coursework: Data Structures, Software Engineering; Operating Systems; Algorithms; Distributed Systems

WORK EXPERIENCE

IBM

Böblingen, Germany

Software Development Engineer Intern

Oct 2024 – Feb 2025

- Developed and maintained Java-based backend services using Quarkus.io, including deployment and management of containerized applications with Kubernetes and OpenShift, ensuring scalability and high availability.
- Designed and executed sanity, regression, and error tests with Quarkus, while developing CI/CD pipelines in Jenkins to automate testing and streamline deployments.

Audi F1 Project

Neuburg an der Donau, Germany

Software Development Engineer Intern

Apr 2024 – Sep 2024

- Enhanced Formula 1 control units by integrating software and hardware solutions to improve vehicle dynamics, safety, and competitiveness.
- **Developed and optimized MATLAB Simulink models** and real-time control logic in C for embedded systems, ensuring performance, stability, and efficiency in critical vehicle functions.
- Created Python tools to automate development processes, increasing productivity and accuracy in data analysis and system integration.

SPARKS GmbH

Ingolstadt, Germany

Student Researcher

Oct 2023 - March 2024

- Contributed to the **KI4BoardNet** research project, funded by the **German Federal Ministry of Education and Research** (**BMBF**), focusing on AI-driven optimization and automation of vehicle electrical systems.
- Developed and integrated software for innovative zonal architectures, central computing units, and smart controllers.
- Worked on reducing wiring complexity and improving development efficiency in future vehicle networks, culminating in the creation of a demonstrator to showcase project outcomes and applications.

PROJECTS

INTELLIGENT, COMMUNITY-BASED WORK TIME MANAGEMENT TOOL

Oct 2023

- Secured Innovation and Jury awards at Audi RealLabor Kreathon 2023, outperforming 10+ teams and presenting a prototype that enhanced employee satisfaction by 30%.
- Established and led a startup, coordinating a team to deliver innovative solutions that were implemented in Audi's production, increasing client satisfaction by 25%.
- Led the development of a flexible work time management system, tailored to user needs and adopted by 95% of surveyed participants.

ON-DEMAND BUS BOOKING TOOL

Nov 2024

- Secured the first-place award at VGI Challenge 2024, competing against 20 teams by developing an innovative tool for on-demand bus booking.
- Collaborated with a multidisciplinary team to create a solution tailored to user needs, enabling efficient, flexible, and sustainable public transportation.
- Tool adopted by VGI for production use, streamlining their booking processes and enhancing user satisfaction

ADDITIONAL

Technical Skills: SQL, Javascript, HTML/CSS, MATLAB, Python, Java, C, Kubernetes, Docker **Awards**: Heinrich Böll Scholarship, German Scholarship(BMBF)