KAMRUL ISLAM SAJIB

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SUMMARY

ISTQB-certified Software QA Engineer with a strong background in software testing, quality assurance, and system validation. Experienced in implementing test strategies, analyzing software requirements, and conducting comprehensive QA tests. Skilled in proactively identifying errors, improving test coverage, and developing technical documentation. Adept at providing customer support and collaborating with cross-functional teams to enhance software quality and user experience.

WORK EXPERIENCE

Harman Becker Automotive Systems GmbH, Ulm   **Oct' 2021 - Present**
Working Student & Intern (5 months), System Engineering EU
Work areas: System Integration & System Test

- Developed detailed test cases and test strategies, contributing to structured QA planning and execution.
- Conducted smoke and regression testing on software releases, ensuring compliance with quality standards and documenting test results using IBM ALM and Jira.
- Validated software functionality across various domains, including OTA updates, Bluetooth, 4G/5G, Wi-Fi, and Android Auto/CarPlay, ensuring seamless performance.
- Identified and reported software defects, tracking bug resolutions and ensuring proper fixes were implemented before release.
- Diagnosed and reconfigured embedded modules using JTAG interfaces, firmware flashing, and communication interface testing.
- Created comprehensive software testing documentation, including test reports, user guides, and troubleshooting manuals using Confluence and Jira.
- Provided technical support to customers and internal teams, troubleshooting software-related issues and ensuring timely solutions.

EDUCATION

Bachelor of Science in Computer Science   **Expected in June 2025**
Technische Hochschule Ulm, Germany

- Major in Computer Engineering, Computer Graphics & Vision
- Thesis on "Hyperparameter Tuning for an ML-based BCI System"
- *REGINNA 4.0 Third Summer School: "Deep Tech Training on Industry 4.0, Artificial Intelligence, Nanotechnology and Entrepreneurship"* – University of León, Spain │ Apr–May 2024
- *Quantum Technology Summer School 2022* – Fachhochschule Technikum Wien, Austria │ Aug 2022

Bachelor of Science in Civil Engineering   **May 2015**
University of Asia Pacific, Bangladesh

- Major in Transportation and Environmental Engineering

CERTIFICATIONS

- **ISTQB® Certified Tester Foundation Level (CTFL)**

- **ISTQB® Certified Tester Automotive Software Tester (CT-AuT)**

ACADEMIC PROJECTS @ THU

Automated Ticket Categorization using Large Language Models (LLMs)
in cooperation with THU and Wieland-Werke AG

This project automated IT support ticket analysis using large language models to interpret text and image data. The solution trains on historical records to assign and validate categories.

- *Stack: Python, Pandas, Flask, BERT-Base, GPT-2, MySQL, Docker*

JukeBox - Android App
Jukebox-themed music player app that simulates a classic jukebox experience, allowing users to browse a music library and select or queue songs for playback.

- *Stack: Java (Android SDK), Android Jetpack (Material Design & ConstraintLayout), Gradle (Android app & Google Services plugins) and Firebase (Auth, Firestore, Storage)*

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, SQL, MATLAB
- **Web-Dev:** HTML, CSS, JavaScript, PHP
- **VCM**: Git
- **Test, Project & Requirements Management:** Jira, Confluence, IBM ALM, DOORS, Elvis
- **Containerization:** Docker
- **Agile & Process Models:** SCRUM, ASPICE V-model
- **Operating System:** Linux, Windows, macOS
- **Data Analytics:** Power BI
- **Machine Learning:** Pytorch, Pandas, Numpy, Jupyter Notebook
- **Automotive Development and Testing:** Vector CANoe
- **Electronics**: Soldering, Multimeter, Oscilloscope, Logical Analyzer
- **SW Tools in Sytem Testing**: ODIS, CPtool, esoTrace Client, IOC Trace Client, Wireshark, MobaXterm, Xoraya Hdd, DLT Viewer, Trace32 (Lauterbach)
- **Familiar** with E/E architecture concepts, in-vehicle communication protocols (CAN, Ethernet, LIN) and diagnostic protocols (UDS, DoIP)

SOFT SKILLS

- **Problem-Solving, Adaptability, Communication, Self-Learning**

LANGUAGES

- **English: Fluent (C1)**
- **German: Intermediate (A2/B1.1)**
- **Bangla: Native**