

Faraz Gul

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About me

Senior AI & Cloud Engineer with 6 years experience in automotive and digital platforms. Skilled in AWS/Azure cloud architectures, test automation, and quality engineering. Skilled in improving system reliability and streamlining engineering workflows. Proficient with Asana work management; fluent in English and conversational in German.

Work experience

Senior AI and Cloud Engineer | Reply-Autonomous AI | 01/01/2025 - Current | Munich, Germany

Supported the development and validation of a proprietary EV Battery Management System (BMS), ensuring software reliability, functional safety, and compliance with automotive standards across the full SDLC.

Performed unit, integration, system, and validation testing while building automated test scripts using Unity, Git, and CI/CD workflows (GitHub Actions/Jenkins).

Automated test pipelines and integrated testing with the build system using DevOps practices, reducing manual testing effort by 30% and improving delivery efficiency.

Conducted static analysis and cyclomatic complexity assessments, improving code quality by 15%, and leveraged tools like SonarQube, Docker, and Kubernetes for scalable test environments.

Collaborated closely with engineering teams to manage defects, optimize DevOps workflows, and ensure smooth deployments using AWS/Azure resources, containerization, and cloud-based automation.

Business or sector Other service activities | **Department:** Consulting Firm

Product and Mfg Test analyst | Accenture | 01/03/2023 - 31/12/2024 | Wolfsburg, Germany

- Led infotainment test infrastructure projects using DevOps, automation, and cloud-based workflows to ensure high software reliability across ECUs.
- Performed system integration, functional, regression, and DevDrop testing while automating ECU flashing and validation via CI/CD pipelines.
- Utilized CANalyzer, ODIS, Docker, and Kubernetes to enhance testing efficiency, data analysis, and debugging accuracy.
- Improved defect tracking and collaboration through cloud DevOps tools (AWS/Azure, GitHub Actions, Jenkins), reducing issue resolution time.
- Delivered insights through analytics-driven reporting (Python/Power BI), contributing to 25% faster test cycles and 20% higher software stability.

Automotive Test Engineer | Umlaut Systems GmbH | 01/10/2021 - 01/03/2023 | Braunschweig, Germany

- Ensured ECU software quality and safety by executing automated HIL tests using CANoe/CAPL with CI/CD-driven workflows integrated via Jenkins and GitHub Actions.
- Performed CAN/LIN/FlexRay trace analysis and automated regression testing, reducing manual effort and improving fault detection by leveraging containerized environments (Docker/Kubernetes).
- Enhanced HIL infrastructure with cloud-enabled reporting, automated triggers, and scalable test execution using AWS/Azure services.
- Collaborated with OEM clients during bring-up sessions, applying cloud-based debugging, defect tracking (JIRA), and analytics to cut issue resolution time by 15%.
- Delivered data-driven test insights using Python/Power BI and improved ECU software reliability through AI-assisted analysis and continuous improvement processes.

Education & Training

M.Sc. Mobility and Transportation Engineering | RWTH-Aachen University | 01/01/2018 - 01/01/2021

B.Sc. Mechanical Engineering | University of Engineering and Technology Peshawar, Pakistan | 01/01/2013 - 01/01/2017 | Pakistan

Skills

Automation Tools - Playwright | Testing with cypress | Software-In-Loop (SIL) Tests using TPT (Time-Partition Test) and TESSY | Microsoft Visual C++ | TestRail - intermediate level | dSPACE HIL Systems | AUTOSAR ASPICE | API Manual Testing and Automation Testing with Postman and Newman | BMS (Battery Management Systems) | Polarian | Trello, Jira, Confluence | AI/ML models deployment in embedded systems | Embedded Applications | Advanced ICT skills (Microsoft Word, Excel, PowerPoint) | Vector tools - CANoe CANalyzer | Vehicle diagnosis | Android, Automotive infotainment(HMI & platform) | AI applications | Unit testing | Regression Tests | Machine learning and deep learning | Artificial Intelligence and Automation in robotics | Quality Assurance/Quality Control | Module Test/Integration Test/ Software Test | AWS - Lambda, ECS, EKS, S3, API Gateway, Serverless | Docker, git, Jenkins, Microsoft Azure, Kuernetes | Windows, Linux, AWS, Azure | Cloud platform experience (MS Azure, Google Cloud, AWS) | Strong knowledge of CI/CD tools (DevOps) | Microsoft Office, Microsoft Azure, Azure DevOps | Git/Github, Docker, Gitlab | QA Tools: Bamboo, Jenkins, Hudson, Selenium, Appium, SonarQube, JUnit, TestNG. | Team management tools (Asana, Trello)