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Software Engineer Azure Application

Respected Hiring Team,

I am excited to apply for the Software Engineer Azure position at Adesso SE, a leader in innovative software solutions. Your launch of the Open Digital Identity Solution (ODIS) in May 2024, certified by BVA and BSI for secure identity verification in banking and public administration, showcases your commitment to cutting-edge technology. I am eager to contribute my expertise in Azure DevOps and software development to support Adessos mission of delivering secure, scalable solutions for diverse industries.

During my Master's program, focusing on AI, I primarily used Python and Ubuntu as my development environment to develop applications for AI-driven tasks. One notable project involved autonomous navigation of the Turtlebot3 in a selected area, incorporating object detection and avoidance, while also mapping the area and ensuring the robot could return to its origin. This project utilized ROS (Noetic) and Gazebo for virtual testing, with key ROS nodes developed in both C++ and Python. Additionally, I managed a CI/CD pipeline for software testing and validation against key performance indicators (KPIs). Data from these operations was efficiently stored, analyzed, and optimized using MySQL. Parallel to my academic pursuits, during nine months at AVL, I worked on the Adaptive AUTOSAR middleware (Service Oriented Architecture) and developing its applications in C++. These Adaptive Applications were deployed on a custom Real Time Linux Operating System using Yocto project. After this, I continued at AVL for my Master's thesis, where I was tasked with upgrading their legacy FMU Generation Utility (written in C++) from the FMI 2.0 to the FMI 3.0 standard, thereby enhancing the functionality of the existing tool for Co-simulation of automobile parts build in different systems like MATLAB, C++ etc. In my Thesis, I also leveraged Google Protocol Buffers through ASAM OSI for efficient data serialization, streamlining integration of sensor and environmental models in driving simulations, enhancing virtual testing capabilities. At Persystems, I was a Junior C++ Developer, where I developed Virtual TestBench, a Qt Desktop application for simulations of electrical components, leveraging Persystems' proprietary library. My responsibilities included designing the UI/UX in the Qt Creator IDE with C++ to ensure a seamless user experience. I have also implemented the application's logic by connecting UI widgets to custom slots, using Qt's signal-slot mechanism to manage data flow between the UI and the backend operations interfacing with Persystems' testbench library. Additionally, I have built a separate license check application for Virtual TestBench using Qt and C++.

My experience with Azure DevOps at AVL and Persystems, combined with my Masters work on Turtlebot3, equips me to excel in developing and deploying Azure-based solutions at Adesso SE. At AVL, I utilized Azure DevOps to manage CI/CD pipelines for Adaptive AUTOSAR middleware and my Masters thesis on FMU co-simulation, ensuring robust testing and deployment of C++ applications for automotive systems. Similarly, at Persystems, I leveraged Azure DevOps to streamline testing and integration of the Qt-based Virtual TestBench, optimizing development workflows for electrical component simulations. My expertise in C++, Python, and ROS from the Turtlebot3 project, where I developed navigation algorithms and validated them through CI/CD pipelines, aligns with your need for scalable software development. My proficiency in MySQL for data optimization and technical documentation at Persystems further prepares me to deliver high-quality, maintainable solutions, supporting collaborative efforts with internal teams and external partners at Adesso SE.

Among the many skills I have honed throughout my career, teamwork stands out as the most pivotal. My past experiences have emphasized the fundamental truth that sustainable solutions are often the result of collaborative efforts, rather than individual brilliance. I am eager to become part of the team and am committed to contributing my utmost from the very start, beginning immediately.

I would be greatly honoured to receive an invitation for an interview.

Yours sincerely
Milind