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## **Software Engineer C Application**

Dear Hiring Team,

I am excited to apply for the Software Engineer C position at WAYS. Your commitment to delivering innovative software solutions for digital transformation in 2024, leveraging agile development and modern technologies, is truly inspiring. This focus on tailored, high-quality software aligns perfectly with my passion for crafting efficient solutions. I am eager to contribute my expertise in software development to support WAYS mission of driving technological advancement.

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 my time 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 in C++ and Python development at AVL and Persystems makes me well-suited for the Software Engineer C role at WAYS. My work on Adaptive AUTOSAR middleware at AVL, deployed on real-time Linux systems using Yocto, demonstrates my ability to handle complex software development tasks, aligning with your need for expertise in modern programming languages. My proficiency in C++ and Python, shown through my Turtlebot3 project and professional work, enables me to develop and integrate testing and reporting software in agile teams. My expertise in CI/CD pipelines and Git ensures high code quality and systematic workflows, meeting your emphasis on quality awareness. While my experience with C and Java is limited, my proven ability to learn tools like Azure DevOps and Yocto quickly positions me to adapt to WAYS technology stack, including Windows-based development. My collaborative work in cross-functional teams at AVL and Persystems aligns with your agile development environment, ensuring I can contribute effectively from conception to integration.

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