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Celonis SE
TheresienstraSSe 6
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Software Engineer - Distributed Systems Application

Respected Hiring Team,

I am thrilled to apply for the Software Engineer - Distributed Systems position at Celonis SE, a company named a Leader in the 2025 Gartnerő Magic Quadrant for its Process Intelligence Platform, recognized for its AI-driven process mining innovations. This achievement underscores Celoniss leadership in transforming business processes, and I am eager to contribute my expertise in distributed systems to your Munich team.

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. 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 built 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++.

Drawing from my Masters work with ROS services for the Turtlebot3 project and my experience at AVL developing Adaptive AUTOSAR middleware using Service-Oriented Architecture (SOA), I am well-prepared to excel as a Software Engineer - Distributed Systems at Celonis SE. My expertise in building distributed systems, demonstrated through C++ and Python applications for ROS-based autonomous navigation and SOA-based automotive middleware, aligns with the demands of designing scalable process intelligence solutions. My proficiency in CI/CD pipelines with Azure DevOps and Jenkins, combined with my skills in Linux systems, Docker, and SQL for data optimization, equips me to handle complex distributed architectures. Additionally, my familiarity with Git and CMake ensures seamless integration into Celoniss development workflows, supporting your AI-driven innovations.

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 honored to receive an invitation for an interview.

Yours sincerely,
Milind