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FINOVESTA GmbH
Speditionstraße 15A
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Regensburg, 26.06.2025

Software Developer C++ and C# Application

Dear Frau Anahita Resasade,

I am thrilled to apply for the Software Developer position at FINOVESTA GmbH, a company recently honored with the FinTech Innovation Award 2025 in April for its advanced algorithmic trading solutions. Your commitment to leveraging cutting-edge technology in securities trading is truly inspiring, and I am highly motivated to contribute my expertise in C++ and C# development to support FINOVESTA's mission of driving innovation in financial markets.

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 developed its applications in C++. These Adaptive Applications were deployed on a custom Real-Time Linux Operating System using the 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 the 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 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 built a separate license check application for Virtual TestBench using Qt and C++.

Drawing from my Master's work, where I developed AI-driven applications in Python and managed complex C++ projects at AVL, alongside my current role at Persystems refining simulation software with Qt and C++, I am well-positioned to excel as a Software Developer at FINOVESTA GmbH. My proficiency in C++ (including C++11-17) and experience with Python and Linux environments align seamlessly with your requirements for developing reliable and performant software for trading systems. My hands-on expertise in CI/CD pipelines, Git, and Azure DevOps, combined with my work on data serialization and MySQL for efficient data handling, equips me to contribute to your client-server systems and database-driven applications. Additionally, my collaborative experience at Persystems and AVL, along with my strong English skills, prepares me to work closely with users to understand trading processes and deliver high-quality, extensible software solutions that support FINOVESTA's innovative trading strategies.

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,

Regensburg, 26.06.2025