

Daniil Litvak - Senior Software Developer

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SUMMARY

Senior Software Developer with 5+ years in embedded systems and expertise in debugging and compilation optimization. Proficient in Python and C++. Fluent in English, German, and Russian, excelling in international collaboration. Holds a Bachelor's in Medical Electronics and pursuing a Master's in Biomedical Engineering.

EXPERIENCE

Software Engineer - Part-time Technische Universität Wien

January 2023 - December 2023, AT, Wien - Remote-Office

- Excelling in developing tunneling software using Python and Tryton, incorporating new features such as innovative export types, resulting in enhanced data retrieval and sharing.
- Revitalizing C++ libraries by seamlessly incorporating new features with Visual Studio versions 17, 19, and 22, achieving enhanced library performance and broader functionality.

R&D Engineer at Meta-data Project - Part-time Technische Universität Wien

April 2022 - December 2022, AT, Wien

- Led the successful deployment of RESTful APIs using Python and InvenioRDM, optimizing data management by aligning strategies with the latest technological trends after in-depth research.
- Crafted and deployed tools to automate data collection across diverse resources, cutting data search times by a remarkable 80%.
- Orchestrated the development and integration of innovative metadata management solutions, resulting in a REST API communication protocol in Python 3.8 on a Linux server. This decisive action propelled a 50% boost in processing speeds and elevated team collaboration.

Software Engineer Embedded Solution BLR

July 2020 - March 2022, BY, Minsk - Remote-Office

- Boosted Multidebugger Core's performance using C++ and Python, slashing debugging time by 40% through the deployment of specialized algorithms for multithreading debugging control, which effectively tackled concurrency issues.
- Engineered and refined data processing and visualization tools, driving a 12% surge in data processing speeds thanks to advanced data structures and superior real-time visualization techniques.
- Pioneered a socket-based communication protocol between an oscilloscope and an automotive testing system, realizing an 8% acceleration in communication speed upon migrating to C++.
- Championed the enhancement of compilation processes with MinGW and LLDB, cutting compilation durations by 15%. Tackled and rectified over 10 library incompatibilities in CPython and rolled out resource control tools, unlocking functionalities in CPython previously out of reach.

Software Developer Freelance Consulting

September 2018 - April 2020, BY, Minsk - Remote-Office

- Engineered and optimized embedded system solutions with C++ and Python, emphasizing real-time data processing. Through meticulous algorithm refinement and hardware utilization, achieved a transformative 67% surge in processing speeds, guaranteeing rapid system responses and heightened reliability.
- Commanded proficiency in English, German, and Russian to amplify communication with international team members, resulting in a streamlined 30% faster project alignment. This linguistic mastery fostered clear understanding and collaboration in diverse project environments.
- Catalyzed the delivery of bespoke software solutions to cater to the distinct demands of international clientele, securing a 20% elevation in client satisfaction rates. Employed linguistic expertise to institute robust feedback mechanisms, ensuring projects not only met but exceeded client aspirations consistently.

SKILLS

- **Programming languages:** Python, C++, Embedded Python
 - **Tools:** Altium Designer, PyCharm, Visual Studio, Eclipse, Unity, Unreal Engine, Makefile, MinGW, LLDB
 - **Version Control Systems:** Git, TFS
 - **Project Management Tools:** JIRA, Confluence
 - **Cloud technologies:** Microsoft Azure
 - **Operating systems:** Windows, Linux
 - **Networking technologies:** TCP/IP, VPN
 - **CI/CD:** Docker, Jenkins
 - **Languages:** English (fluent), German (fluent), Russian (fluent)
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