Aliaksei Ivanou | C++ Software Engineer

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Software Engineer with 4+ years of technical expertise in algorithm development, system optimization, and cross-platform implementation. Proven specialist in **C/C++** development across diverse technical stacks in multicultural environments. Seeking to leverage my expertise in C/C++ software development:

– Boost C++ application efficiency and reliability by 25%.
– Improved C++ system performance by 15% through codebase optimization and legacy code removal.
– Delivered scalable solutions for complex systems through domain expertise and business-aligned user scenarios.
– Designed implementation strategies preserving existing functionality while minimizing future refactoring needs.

Technical Expertise:
– Complex data structures and system architecture design..
– Optimizing and restructuring legacy systems while focusing on modern technologies.
– Driving innovation and business success through evolving technology stacks.

Valid work residence permit for Poland.

Tech Stack & Domains

● *Languages & Frameworks*: C++, C++17, C++14, C++11, C, C89, Qt, Qt 6.
● *Databases & Storage*: PostgreSQL, MySQL, SQLite.
● *Infrastructure & Cloud*: Amazon Web Services (AWS).
● *Development Tools*: git, GitHub, BitBucket, Jira, Jenkins, GCC, gdb, CMake, Visual Studio, FLTK GUI Library, plog logger, GoogleTest, Point Cloud Library.
● *Development Practices*: Test-driven development, CI/CD pipelines, Agile, Scrum, Kanban, Code review, Data Analysis, Software Design Patterns, Object-Oriented Programming, Debugging.
● *Domains*: FinTech, Oil & Gas, LMS Systems.

Experience

C++ Software Engineer | Innowise Group   **12/2024 - Present**

Innowise is a global software development company, specializing in Big Data, AI, RPA, IoT, AR/VR, and Blockchain.

● Mentored and onboarded 3 new developers through structured guidance and support, enabling them to successfully complete probation periods.
● Established robust technical quality processes including code reviews, best practices implementation (coding standards, security, performance optimization), technical interviews for C/C++ candidates, and comprehensive documentation improvements.

Tech Stack: C, C++, Qt, Qt 6, git, Jira, CMake, GoogleTest, Visual Studio, Test-driven development, PostgreSQL, MySQL.

C++ Software Engineer | EPAM Systems   **09/2021 - 08/2024**

EPAM Systems (NYSE: EPAM) is one of the global leaders in both digital engineering and IT consulting, recognized for innovation, cloud, and AI services.

● Delivered on key projects (Oil & Gas Corporate System, Library System), adapting to tech stacks from C89 to C++17, resulting in 15% improved system performance and stability.
● Enhanced 20% of the codebase by removing legacy components and implementing optimizations, resulting in measurable improvements: a 25% increase in performance speed, enhanced system reliability, and greater operational efficiency.
● Leveraged Amazon Web Services (AWS) cloud services to design and implement scalable data processing pipelines, improving system stability and reducing operational costs by 20% while ensuring high availability of critical applications.

● Enhanced user experience by developing 16+ user-requested features, optimizing database queries, reducing user request handling speed by 15%, increasing codebase efficiency and contributing to a 10% increase in CSAT (Customer Satisfaction Score).

● Established and maintained productive relationships with internal and external teams, fostering effective communication through bi-weekly demos, regular meetings with the customer teams, and daily stand-ups with the internal team. This collaboration approach reduced integration and deployment times by 30%. Demonstrated excellent problem-solving and communication skills with a result-oriented mindset.

Tech Stack: C, C89, C++, C++14, C++17, Java, Java 8, Java 11, Scala, JavaScript, Amazon Web Services (AWS), Apache, Linux, gdb, SSH, git, BitBucket, Jira, Jenkins, GCC, Valgrind, CMake, Test-driven development, CI/CD pipelines, Agile, Scrum, Kanban, Code review, PostgreSQL, MySQL, TCP/IP, WebSockets.

C++ Software Engineer | Personal project   **03/2020 - 06/2021**

● Created independently a home accounting app with an intuitive FLTK-based interface for transaction entry and financial analysis, integrating SQLite for efficient data management.

● Employed GoogleTest for application reliability, plog for error logging, and CMake for build automation to improve development workflow.

Tech Stack: C, C++, C++11, git, GitHub, FLTK GUI Library, plog logger, GoogleTest, CMake, Visual Studio, Test-driven development, SQLite.

Education

● Higher education. Bachelor's Degree in Radiophysics. Satellite information systems and technologies : Belarusian State University, Faculty of Radiophysics and Computer Technologies, 09/2007 - 07/2012
● Programming course. C++ EPAM Systems Laboratory : EPAM Systems, 05/2021 - 08/2021
● Programming course. C++ EPAM Systems Mentoring Program : EPAM Systems, 05/2020 - 08/2021
● Programming course. C++ Programming : IT-Academy.by, 03/2018 - 05/2018

Languages

● **English**: Working proficiency (B1+)
● **Polish**: Conversational proficiency (B1)
● **Swedish**: Elementary proficiency (A2)
● **Russian**: Native proficiency (C2)
● **Belarusian**: Native proficiency (C2)