

# ANDREY IVANOV

Lead Software Engineer / System Architect (C++ / Python)

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GitHub: <https://github.com/Biopolitek/my>

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## SUMMARY

**Systems Engineer with 15 years of experience**, evolving from mission-critical software development in research institutes to building modern AI-driven automation systems.

- **Expertise:** Deep knowledge of C++/Qt and system integration within Linux environments (Astra Linux).
  - **Current Focus:** Transforming engineering workflows through AI. Developing custom Python-based ETL tools that automate frontend assembly with **Pixel-Perfect** precision.
  - **Approach:** Advocate for transparent architecture and Open Source culture. Expert in localizing critical bugs within complex IT ecosystems.
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## CORE COMPETENCIES

- **C++ / Qt Framework Development:** Long-term experience in designing complex interfaces and system algorithms. Successful migration of large-scale systems (1000+ files) from OS2000 to Astra Linux.
  - **Python Automation & AI:** Developing ETL pipelines for transforming graphical data into code (**Project Chimera / ACTE**). Managing AI as a code generation tool (**AI-driven development**).
  - **Algorithms & Systems Analysis:** Optimizing data mining algorithms, working with high-load databases and complex legacy code.
  - **L3 Analytics & QA:** Expert-level identification and localization of critical errors in logistics and fintech ecosystems (**Ozon**).
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## TECH STACK

- **Languages:** C/C++ (Expert), Python (Core, ETL, Automation), SQL (PostgreSQL).
  - **Tools & Platforms:** Qt Framework (Qt Creator), PyCharm, Git, Docker, CLI, Jira/Confluence. **OS:**
  - Astra Linux (Expert), Ubuntu, Windows Server, OS2000.
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## EXPERIENCE

**02.2024 — Present | Lead Developer / Architect (Open Source)**

**Project: Project Chimera (ACTE) — Frontend Assembly Automation System**

- **Concept:** Developed a modular Python-based system for automated layout generation (Unpacker + Decoder).
- **Engineering:** Built a pipeline that transforms layout coordinates and assets into HTML5/CSS3 with **Pixel-Perfect** accuracy (90%+ readiness).
- **AI-Strategy:** Implemented **AI-Assisted Engineering**: architectural design and quality control of AI-generated code based on strict technical specifications.

**09.2022 — Present | Technical Business Process Support Specialist**

**Ozon (E-commerce / Logistics)**

- **R&D Interaction:** Identifying critical architectural flaws in logistics and fintech software.

- **Impact:** Reduced bug identification time through a deep understanding of complex system interdependencies.

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**12.2015 — 12.2022 | Lead Software Engineer**

**JSC Research Institute "Kulon"**

- **Software Migration:** Full adaptation and recompilation of a major project (~1000 \*.cpp, \*.h files) in a Qt environment for Astra Linux.
- **Development:** Designed control modules and high-speed data access algorithms. Successfully migrated a mission-critical system to a modern domestic platform.

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**EDUCATION**

**2008 | Moscow State University of Instrument Engineering (now RTU MIREA)**

- **Major:** Instrumentation Engineering. **Degree:** Engineer (Higher Education).

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**PERSONAL ATTRIBUTES**

- Experience in cross-functional teams (5+ members). Strong believer in Open Source and transparent engineering processes.