

# Ihor Sh.

## Senior C++ Software Developer

### SUMMARY

- 7+ years of experience in C++ software development across desktop and embedded systems; - Experienced with 15+ commercial projects in automotive, fintech, and embedded domains; - Skilled in C++, Qt, QML, Python, and experience with JavaScript, Lua, and TypeScript for cross-platform applications; - Skilled in REST API, HTTP, VoIP, SIP, and DICOM integrations; - Experience with GitLab, Jenkins, Azure, TFS, SVN, CodeBlocks, QtCreator, and Visual Studio across Windows, Linux, and Mac environments; - Solid understanding of SDLC, clean architecture, software optimization, and code refactoring for performance and maintainability; - Experienced in mentoring team members, code reviews, and ensuring adherence to best engineering practices.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	C++, Qt Framework, Python, PostgreSQL
<b>Programming Languages</b>	C++, JavaScript, Lua, Python, TypeScript
<b>C++ Frameworks</b>	Boost
<b>Java Libraries and Tools</b>	JSON
<b>Python Libraries and Tools</b>	PyQt
<b>Databases &amp; Management Systems / ORM</b>	PostgreSQL, SQL
<b>Cloud Platforms, Services &amp; Computing</b>	Azure
<b>Azure Cloud Services</b>	Azure Blockchain
<b>Industry Domain Experience</b>	Automotive, Fintech
<b>SDK / API and Integrations</b>	API
<b>BlockChain and Decentralized Software</b>	Azure Blockchain, Web3
<b>Virtualization, Containers and Orchestration</b>	Docker, Docker Swarm
<b>Methodologies, Paradigms and Patterns</b>	FDD, microservices, Observer, OOP, REST, SDLC, SOLID
<b>Version Control</b>	GitLab, Perforce, SVN



<b>Mail / Network Protocols / Data transfer</b>	GRPC, HTTP, VoIP
<b>Deployment, CI/CD &amp; Administration</b>	Jenkins
<b>Operating Systems</b>	Linux, macOS, Windows
<b>QA, Test Automation, Security</b>	Postman, TFS
<b>Third Party Tools / IDEs / SDK / Services</b>	Qt Framework, Visual Studio, XCode
<b>Collaboration, Task &amp; Issue Tracking</b>	Redmine
<b>Logging and Monitoring</b>	SIP
<b>UI/UX/Wireframing</b>	STL
<b>File Systems, Storage</b>	XML
<b>Other Technical Skills</b>	Cocos2dx-GUI, crypto prj, CUDA, Data Structures, Desktop, DICOM, Embedded Systems, Juce, Multithread, PySide, Qml

## WORK EXPERIENCE

### C++ Software Developer, Product Company

**Duration:** Dec. 2022 - Present

**Summary:** Developed and maintained cross-platform applications using C++, Qt, QML, and Python. Implemented new product features and ensured high performance and maintainability through refactoring and optimization.

#### Key Responsibilities:

- Designed and developed product features with C++, Qt, QML, Python, JavaScript, and Lua;
- Integrated REST APIs, HTTP, VoIP, SIP, and DICOM protocols;
- Refactored legacy code to improve system performance and maintainability;
- Led task coordination and mentoring of other developers;
- Worked with GitLab, Jenkins, Code::Blocks, and QtCreator across Windows, Linux, and Mac environments.

**Technologies:** C++, Qt, QML, Python, JavaScript, Lua, REST API, HTTP, VoIP, SIP, DICOM, GitLab, Jenkins, Code::Blocks, QtCreator, Swagger, YAML.

### C++ Software Developer, Outsource Company

**Duration:** Sept. 2020 - Dec. 2022

**Summary:** Contributed to multiple cross-platform and embedded projects, implementing new features and optimizing performance for C++ and Python applications.

#### Responsibilities:

- Built and maintained applications using C++, Qt, QML, and Python;



- Refactored and optimized existing codebases for stability and speed;
- Led development tasks and code reviews for junior engineers;
- Supported embedded systems development for hardware integration and real-time processing;
- Worked in Azure and TFS environments using Git and Visual Studio.

**Technologies:** C++, Qt, QML, Python, Embedded Systems, Git, Azure, TFS, Visual Studio, Windows/Linux/Mac.

## **C++ Software Developer, Product Company**

**Duration:** June 2019 - Sept. 2020

**Summary:** Focused on application performance optimization and new feature implementation in a cross-platform environment.

### **Responsibilities:**

- Implemented product features using C++, Qt, QML, and TypeScript;
- Fixed critical bugs to improve stability and reduce issue backlog;
- Refactored legacy code to enhance maintainability;
- Conducted code reviews and coordinated development tasks;
- Worked with SVN, Jira, and Visual Studio across Windows, Linux, and Mac systems.

**Technologies:** C++, Qt, QML, TypeScript, SVN, Jira, and Visual Studio.

## **EDUCATION**

**Bachelor's Degree in Software Development, DIIT University (Sept. 2017 - June 2021)**

