

Morteza Sherafati

Senior Software Developer

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Key skills

C++/Qt development

Design and implement from scratch

Maintain an existing code base

Communication and leading a team

Web-based small developments

Review pull requests

Using Linux as dev environment

Summary

My main programming language is C++ (mostly in Qt) and I have 5+ year experience of designing architect, implementing, and maintaining applications using this programming language. I also created large applications from scratch which is currently working in many projects and industrial facilities.

I have worked in many industrial projects and companies with international teams and different time zones. contributing to Qt Widget-based applications in proprietary or open-source projects like Krita and LibreCAD.

I have worked with many Qt modules and third-party libraries, and I know how to develop and work with APIs, mostly used Design Patterns and Databases. I like to develop in Linux environment as much as possible, so most of the times I develop with Linux toolsets.

I prefer to challenge myself with CMake build system and configuring CI/CD automation processes for automatic SDLC using Git-based platforms. I know Docker, Pipelines and cloud services like Google Cloud and Firebase.

using Jira, Slack, Trello or any other platforms for communication in remote projects and tracking tasks. I had experience leading a team of developers, designers and content creators for web-based projects with daily basis meetings. I also have experience developing web-based applications using Node.js and PHP.

Python lover and interested in graphical frameworks and visual art platforms such as Processing, Open Frameworks and front-end toolset like CSS, JavaScript and SVGs.

Experience

2021–2022 Senior Software Developer / I&L Biosystems GmbH

- Maintain an existing desktop application called Protein Maker which was already working, written within Qt framework
- Attended weekly meetings and worked with other team members within Jira boards and addressing issues on Protein Maker project
- Led a team of developers, designers and content creators, working on 4 different web sites, organizing daily meetings and following their tasks as production owner
- Reviewed pull requests of other developers and merging, reverting operations on development and production branches

Key Achievement:

- Improved Protein Maker build system to CMake and upgraded Qt version from Qt5.3 to Qt5.15
- Improved logging system, database and implemented API as a new feature of application
- Added required 3rdparty libraries to Protein Maker and implemented new features for the application to run faster without crash
- Used ahrefs.com to improve the SEO of websites on different project of the company

2019–2021 Software Developer / Modje Niroom Company

- Research and development on automation and SCADA systems in electrical industry and the latest practical technologies used by other related systems.
- Analyzed the solutions to be used in electrical automation industry and design high-level documents and the major strategies
- Implemented two major projects: HMI Designer and HMI Player from scratch using Qt and Web Technologies like HTML, JavaScript and CSS

Key Achievement:

- Ported the graphical framework of the old system to a whole new framework written with web technologies and enhanced the applicability of the project to new areas like Oil and Gas or Water treatment facilities

2017–2019 Software Developer / Pars Process Inc.

- Developed practical modules for an under-development ERP system using Qt
- Design and implemented the required components and modules like Vertical Grid and Master Detail Dialogs to be used in the ERP system and Applications Framework
- Documented all the components using Doxygen and UML diagrams
- Porting all projects from QMake to CMake build system

Key Achievement:

- Design and implementation of HMI Framework (includes HMI Designer, HMI Runner) using Qt from scratch which was tested practically with SCADA system successfully
- Ported all the components and modules of the system to Python using PythonQt to enhance scripting feature for end-user
- Created an ADC Stabilizer application from scratch using Qt

Education

- **2015-2017** Birjand University, Birjand
MSc, Mechanical Engineering
- **2009-2013** Sirjan University of Technology, Sirjan
BS, Mechanical Engineering