# Mola Pahnadayan

SOFTWARE DEVELOPER

## Contact

Tehran, Iran
+989361067319
mola.mp@gmail.com


## Links

Github

Linkedin

## Skills

Qt/C++/QML
Boost/C++
Socket programming
MultiThread
PostgreSQL,SQLite
Microsoft SQL Server
Linux(Fedora, Manjaro)
Python
Software Logic
Software Troubleshooting
User Experience
OpenSceneGraph
Osgearth
Quantum GIS
GDAL Lib/Geos Lib
Virtualization (Linux KVM)
Gstreamer
Cmake
Git
Drogon/C++
Inkscape/Gimp/Blender

## LANGUAGES

Persian
English

## Profile

A programmer with over 20 years of experience, primarily worked with QT/C++ as the main programming language in the past decade.

## WORK EXPERIENCE

* May 2022 – Present
  Software Manager & Developer at Datall, Tehran

* January 2012 – Present
  Advisory Software Engineer at Mojpardaz Alborz, Tehran

* April 2015 – May 2019
  Head Of Development at Sharif University of Technology, Tehran

* January 2008 – January 2012
  Senior Software Engineer at Mojpardaz Basir, Tehran

## EDUCATION

* Bachelor of Software Engineering

## TYPES OF PROJECTS

**Gis**

Working on various types of vector and raster maps, displaying objects on maps in real-time. Work experience with Ais, Nmea, and network (TCP/UDP) protocols. I have developed two projects, one using QML/Qt/C++(2D) and the other using Qt/OsgEarth/C++(3D).

- GUI are Interactive (Drawing tools, Add Objects on map, Ruler, ...)
- Use TCP/IP as communication methods (Design Custom Protocol)
- Use PostGis Module on PostgreSQL
- The GDAL and Geos libraries have been used for some processing and analysis tasks.

**Condition Monitoring of Rotating Equipment**

Equipment such as steam turbines and reciprocating compressors.

- Designing a modular server with various modules such as Drogon/c++ web service, PostgreSQL, OPCUA Server & Client, and more.
- Designing a desktop software for equipment monitoring that includes various types of 2D and 3D chart visualizations using QT/C++.
- In this project, I have used both REST and WebSocket as communication methods between the server and web/desktop clients. I have used CBOR and JSON selectively for content transfer.
- In this project, there were different types of numerical and array sensors. The array sensors were producing 50,000 samples per second.
- This project can be executed on both Windows and Linux operating systems.

**Simulation**

I have written several simulators for testing my programs, and I would like to mention some of them:

- AIS Simulator
- Vibration Sensor Data Simulator in Turbines
- Numerical Data Simulator
- Network Data Recorder with Time and Playback