

Mola Pahnadayan

SOFTWARE DEVELOPER

Contact

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Profile

A seasoned programmer with over 20 years of experience specializing in Qt/C++ and a track record of success in GIS systems, condition monitoring, and creating robust simulation tools. Known for developing scalable, cross-platform solutions and leading innovative projects in dynamic team settings.

WORK EXPERIENCE

- **Software Manager & Developer | Datall, Tehran**
May 2022 – Present
Oversee development operations and contribute to software solutions, enhancing efficiency and monitoring across platforms.
- **Advisory Software Engineer | Mojpardaz Alborz, Tehran**
January 2012 – Present
Provide expert guidance on software development projects, ensuring the adoption of best practices and delivering high-quality applications.
- **Head Of Development | Sharif University of Technology, Tehran**
April 2015 – May 2019
Led a dynamic development team in executing strategic plans for software innovations while fostering an environment of learning and growth.
- **Senior Software Engineer | Mojpardaz Basir, Tehran**
January 2008 – January 2012
Promoted software excellence and problem-solving acumen, driving the creation of cutting-edge applications for various needs.

EDUCATION

* Bachelor of Software Engineering

Skills

- Proficient in Qt/C++/QML and Boost/C++ for robust hardware and software interfacing.
- Skilled in socket programming and multithreading to support asynchronous task management.
- Database management using PostgreSQL, SQLite, and Microsoft SQL Server.
- Development of cross-platform software for Linux and Windows operating systems.
- Extensive Python programming for scripting and automation.
- Proficient in user experience optimization for desktop applications.
- Utilization of OpenSceneGraph, Osgearth, and Quantum GIS for sophisticated GIS applications.
- Software deployment using Cmake and version control with Git.
- Experience with virtualization tools such as Linux KVM and multimedia frameworks such as Gstreamer.
- Design skills including Inkscape, Gimp, and Blender for creative project needs.

Languages

- Fluent in Persian
- Proficient in English

Projects

- **GIS Applications:**
 - Executed projects involving interactive GUI designs with QML/Qt/C++ for 2D visualization and Qt/OsgEarth/C++ for 3D models.
 - Developed custom protocols over TCP/IP for data communication and utilized PostgreSQL with PostGIS for spatial data management.
- **Condition Monitoring Systems:**
 - Created a modular server with Drogon/C++, incorporating a PostgreSQL backend, OPCUA Server & Client, that collectively power desktop monitoring software.
- **Simulation Tools:**
 - Designed a suite of simulators, including AIS and Vibrating Sensor Data simulators, reinforcing test-driven development and validating the integrity of software solutions.