Reza **Arjmandi**
Senior Software Engineer | Software Architect

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Highly skilled, motivated, vigorous engineer with an unquenchable passion for learning, changing, inventing, and creating, with a fine grasp of engineering practices, SDLC, OOAD, QA, mastery of diverse set of development tools(C++11/14/17/20, QT/QML, STL, C, SQL, etc.) and techniques, and multiple business domains, and leadership qualities required for motivating a team, a natural problem solver with an analytic mind.

Knowledge and Skills

Programming Languages :	**C++** (11, 14, **17**, **20**), **C**, **JavaScript**, **TypeScript**, **Python**, Java, C#
OS Level Programming Concepts :	**Linux**, **Win32**, WinRT, POSIX, IO, threads, IPC, TCP/IP, sockets
C++ Development :	**C++ STL**, **boost**, Qt Framework
Build Chaintools :	**CMake**, **MSBuild**, **node-gyp**, Qmake
Software Packaging :	**WiX Toolset**, CPack, npm, Docker
Web Development :	**React.js**, Redux, Storybook, Material-UI
API Development :	**Django REST Framework**, **boost-beast**, **boost-asio**, **Restbed**, Bottle
.NET Framework :	**C++/CLI**, **WPF**, Win Forms
Database :	Microsoft SQL Server, MySQL, **SQLite**, Database Design
Version Control Systems :	**Git**, **TFVC**
Technologies :	**OpenCV**, **image processing**, OpenGL, VTK, GLSL
Software Engineering :	**Software architecture**, **TDD**, Object Oriented Analysis and Design
Agile Development :	**SCRUM**, **Refactoring**, **Continuous Integration**
Test-driven Development :	**gtest/gmock**, **boost test**, **turtle mock**, JUnit, Enzyme
Error Reporting :	**Sentry**, **google breakpad/crashpad**
Embedded Systems :	**Raspberry Pi**, ARM/AVR µController, ESP8266
IOT Development :	Emqtt broker, Erlang/OTP
Domain Knowledge :	IOT, Telecommunications, Medical devices, Biomedical technologies

Work Experience

Present September 2021	**Workpuls**, Belgrade, Serbia > The low level OS (Win32, Mac and Linux) APIs are exposed through **node-addon-api**, used to create a native **Electron.js** desktop application. > Using **Sentry** and **breakpad/crashpad** as back-ends to have error reporting and crash reporting across multiple platforms(Windows, Linux, Mac). `node-addon-api` `node-gyp` `ElectronJS` `npm` `RxJS` `Sentry` `google crashpad` `google breakpad` `Async Programming` `Win32` `Linux API` `C++/CLI` `MacOS API`
September 2021 January 2019	**FARAZ ERTEBAT**, Tehran, Iran > Participated in development of a web project in domain of telecommunication equipment. Front-end was implemented through **React.js** framework and Back-end API was implemented through **C++ Restbed** framework. > Using **Storybook**, Jest and Enzyme.js for testing purposes. > Using TDD technique to implement software components, included unit tests, integration tests and acceptance tests. > Using **Boost.asio** to program network I/O asynchronously. > Getting to know the **modern C++ asynchronous programming** patterns through Boost.asio and **co-routine**. `Asynchronous Programming` `Boost.asio` `coroutine` `React.js` `C++ Restbed` `Jest` `Enzyme.js` `Storybook` `gtest`

2019 January 2016	**Parseh Intelligent Surgical Systems Co.,** Tehran, Iran › Migration of Microsoft SQL Server projects under **SQLite** › Using **TDD** and test harness enclosure focus on **unit tests** in the development process. › Participated in development of automated build, **continuous integration**, automated software packaging and deployment. › Participated in re-engineering and **re-architecturing** of the existing system, through **TDD**. `C++11/14` `STL` `Boost` `turtle mock` `TDD` `WPF` `C#` `C++/CLI` `OpenGL` `SQLite` `libzip` `Visualization Toolkit` `MS Team Foundation` `MS Visual Studio` `Clean Architecture` `SCRUM`
December 2016 January 2015	**Institute for Advanced Medical Technologies,** Tehran University, Iran › Collaboration with Image Guide Surgery Group(IGSG) laboratory. › Led and Implemented a low latency and real-time **image proecssing** software. › Involved real-time image acquisition from a Bronchoscopy device parallel with data acquisition from EM tracker. › Involved real-time visualization and data persistence. `C++11` `STL` `threads` `MFC` `OpenCV` `Image Processing` `MVC Architecture` `XML` `Aurora EM tracker`
February 2015	**Raspberry Pi teacher,** Shahed University Incubator Center, Iran *Taught advanced Raspberry Pi courses.* The course included a variety of interesting topics : **Raspberry Pi** board, **linux**, **Python**, web development(bottle), **image processing**, **OpenCV**, **IOT**, etc. `Raspberry Pi` `linux` `Python` `bottle` `OpenCV` `IOT`

ⒶⒶ Languages

Farsi ●●●●●
English ●●●●○
Serbian ●○○○○

👍 Accomplishment

› National Programming Competition
› 1st place winner
› 2012

🎓 Education

2013	BSc in Biomedical Engineering - Shahed University, Tehran, Iran