

Reza Arjmandi

Software Engineer

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Highly skilled and motivated with an analytic mind and an unquenchable passion for learning and solving problems.

Knowledge and Skills

Programming Languages : **modern C++, TypeScript**, Objective-C, C#, python
Programming Paradigms : **OOP, Reactive**
Desktop Development : **ElectronJS, Qt/QML, MFC**
OS API Knowledge : **Windows, MacOS, Linux**
Web Development : **React, Node.js, Chrome Extension**
C++ Build Systems : **CMake, MSBuild, node-gyp**
Production Tools : **Wix toolset, PM2, CPack**
C++ Libraries : **STL, Boost, node-addon-api, OpenCV, VTK**
Databases : **SQLite, MongoDB, MS SQL Server**

Work Experience

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|--------------------------------|---|
| Present September 2021 | Insightful, SaaS <ul style="list-style-type: none">> Developed a cross-platform desktop app using Electron.js with a UI built in Angular.> Application logic implemented in TypeScript and platform-specific C++ modules.> Integrated platform-specific C++ codes to Node.js using node-addon-api.> Developed a Windows Service using C# and a MacOS daemon using Objective-C.> Developed a chrome extension using TypeScript to extract targeted content from pages.> Implemented IPC between extension and app via the Native Messaging protocol. <div>WindowsLinuxMacOSRxJSC++/CLINET FrameworkJestSentrynode-gypWix toolset</div> |
| September 2021 January 2019 | FARAZ ERTEBAT, Telecommunication <ul style="list-style-type: none">> Developed a Windows app to receive, process and visualize radio signals using MFC framework.> Modernized the Network IO layer and concurrency model in a big legacy SDR software.> Developed an app for Raspberry Pi board to collect GPS data using C++.> Developed a web app to visualize radio signals using React. <div>WindowsLinuxCMakeDSP algorithmsBoostSTLTDDgtestgmockReduxWebSocket</div> |
| 2019 January 2016 | Parseh Intelligent Surgical Systems Co., Surgical Systems <ul style="list-style-type: none">> Developed a surgical navigation software using C# and C++.> Developed an ORM for SQLite using C++.> Migrated the existing DB from MS SQL Server to SQLite with test harnesses.> Refactored of existing software using TDD and Clean Architecture.> Implement a complete CI/CD pipeline for existing software. <div>WindowsSTLBoostturtle mockWPF C++/CLIOpenGLlibzipVTKSCRUMWix toolset</div> |
| December 2016 January 2015 | Institute for Advanced Medical Technologies, Medical Equipments <ul style="list-style-type: none">> Developed a real-time image processing software using C++ and OpenCV. <div>WindowsSTLMFCMachine VisionMVCXMLSerial port</div> |
| November 2017 March 2015 | Raspberry Pi Teacher, IOT <ul style="list-style-type: none">> Taught software development using Python on Raspberry Pi board. <div>LinuxOpenCVIOT</div> |

Languages

English ● ● ● ● ●

Accomplishment

- > National Programming Competition
- > 1st place winner
- > 2012