

Filip Frącz

filipfracz@gmail.com * <http://filipfracz.net> * @itsff * +1-734-274-0596 * +1-714-CL-FILIP

Work Experience

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| Thomson Reuters
2015 – present | Lead Software Engineer <ul style="list-style-type: none">• Lead Software Engineer of a global team with members in the US, Beijing and Hong Kong. Working on revitalization of the 400+ data feeds that Thomson Reuters currently supports.• Designed and implemented a Domain Specific Language for transforming market data from various exchanges into a normalized form. This greatly simplifies on-boarding of new gateways. All new feeds, and all legacy feeds will be converted to use my framework.• Implemented a configuration-driven, high performance run-time environment for executing transformations. Technologies used: C++14, Boost, STL, TDD, Centos 6 Linux, Python, Bison, Flex, Git. |
| Trading Technologies International, Inc.
2006 – 2015 | Principal Software Engineer <ul style="list-style-type: none">• Developed high performance, low latency Algorithmic Trading Server securely hosting customer-written trading strategies. Optimized for dedicated- and shared-hosting in data centers co-located with exchanges. CentOS Linux, Docker/Rocket, raw C, C++14, gcc, clang, git, sockets, LBM, FUSE• Architected and implemented next-generation Trading API known as TT SDK used with Algorithmic Cloud-Trading. Interfaces exposed as raw C, implementation in C++14 and C. CentOS Linux, gcc, git.• Architected the foundation for TT's mobile trading app targeting iPhones and iPads. Objective-C, OS X• Created a fresh, modern, mobile Android trading app which connects to TT's cloud platform. The app covered all main features found on desktop equivalents. Android, Java, JSON, C# 5.0, Xamarin tools, git• Team-lead of EdgeServer and developer of TT's newest cloud-based trading platform. Designed client-facing communication protocols (inspired by FIX). C++11, STL, gcc, clang, Linux, Protocol Buffers, LBM, Python, Java, Scala, Amazon Web Services (AWS).• Architect of TT API, TT's managed trading library for Automated Trading Servers. C++, C++/CLI, C#• Involved in design and implementation of AlgoSE algorithmic trading server and Algo Design Lab client application. C#, C++/CLI, Windows Forms, WPF.• Developed modules of X_TRADER trading application. Win32, MFC, C++/CLI, C#, WPF, WinForms• Re-architected legacy code to take advantage of multi-core systems. C++, C#, Queues and Actors• Bridged new .NET code with legacy C++ MFC sources. Technologies used: C#, COM, C++, C++/CLI |
| Intelilinks, LLC
2005 – 2006 | Software Architect <ul style="list-style-type: none">• Designed and developed Intelilinks' flagship product from the ground up using C# 2.0, Microsoft SQL Server Express, and ASP.NET Web Services. |
| OptiMetrics, Inc.
2002 – 2006 | Computer Programmer and Data Analyst <ul style="list-style-type: none">• Developed slick Java GUI for thermal image analysis software originally written in Fortran and C++, remarkably improving usability. Used on Windows, Linux and Solaris.• Researched new intelligent data input technology involving eye trackers; later implemented into commercial game engine.• Developed computerized training manual for Stryker Light Armored Vehicle using PHP, Apache and MySQL; later deployed to troops in Iraq.• Worked on quantum computer project sponsored by DARPA; created Java applets allowing scientists to publish quantum circuit diagrams online. |

Education

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| University of Michigan
Ann Arbor, MI
2002 – 2005 | Bachelor of Science and Engineering in Computer Science
Coursework: Computer Security, Software Engineering, Distributed Computing, Networking, Databases, Web Databases, Computer Graphics, Operating Systems, Differential Equations, German, Digital Photography, History, Polish Literature |
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Computer Skills, Hobbies, etc

- C++14, C++/CLI, C# 5.0, STL, Boost, C, Linux, Win32, Windows Forms, WPF, Silverlight, Android, Java, Windows Phone, MFC, PHP, SQL, XML, XSLT, TDD, Boo, Python, iOS, Objective-C, Protocol Buffers, TCP/IP, Actors, Xamarin
- Created several Windows Phone and iOS applications during spare time. My mortgage calculator “Mo Calc” used to be in the top 10 free finance apps. Acrylic painting.
- Participant in local GiveCamp.org events – coding for charity.