

Filip Frącz

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Work Experience

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| Trading Technologies International, Inc.
2006 – present | Principal Software Engineer <ul style="list-style-type: none">• Developing high performance algorithmic trading server securely hosting customer-written strategies. Architected next-generation trading API known as TT SDK. Technologies used: Linux, raw C, C++14• Architected the foundation for TT's mobile trading app targeting iPhones and iPads. Technologies used: Objective-C, OS X, JSON, Git, Cocoa Pods• Created a fresh, modern, mobile Android trading app which connects to TT's cloud platform. The application covers almost all of the main features found on desktop equivalents. Technologies used: Android, Java, JSON, C# 5.0, Xamarin tools, Git• Developed TT's newest cloud-based trading platform. Technologies used: C++11, STL, Linux, Protocol Buffers, LBM, Python, Java, Scala, Amazon Web Services (AWS).• Main architect of the next-generation managed trading library for automated trading systems - TT API. C#, C++/CLI, .NET 4.0• Involved in design and implementation of AlgoSE algorithmic trading server and Algo Design Lab client application. C#, C++/CLI, Windows Forms, WPF.• Worked on a high performance X_TRADER trading application. C++, STL, Win32, MFC, C++/CLI, C#.• Implemented numerous usability improvements to the GUI, making the application faster, easier and more pleasant to use. Technologies used: Windows Forms, WPF, MFC.• Re-architected legacy code to take advantage of multi-core systems. C++, C#• Performed various micro- and macro-optimizations of existing code, both in C#, C++/CLI and C++.• Designed and developed several key modules of X_TRADER.• 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.• 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.• Acquired interim security clearance.• Worked on quantum computer project sponsored by DARPA; created Java applets allowing scientists to publish quantum circuit diagrams online.• Contracted to US Army Tank and Automotive Command to assist in camouflage evaluation using Maple and Matlab software. |

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# 5.0, C++14, C++/CLI, STL, Boost, Windows Forms, WPF, Silverlight, Windows Phone 7, Java, Android, Win32, MFC, PHP, SQL, XML, XSLT, Boo, Python, iOS, Objective-C
- Created several Windows Phone 7 applications during spare time. My mortgage calculator “Mo Calc” used to be in the top 10 free finance apps.
- Participant in local GiveCamp.org events – coding for charity.