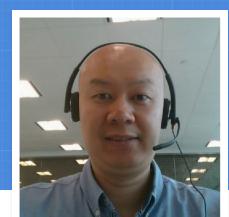# Tim Hsu

Professional Software Engineer

Summary

FIRE - **Financially Independent. Retired Early.** ONLY looking for hybrid/remote/WFH/part-time/freelance/contract work. Willing to accept LOW salary for EASY work or work that could be automated.

Web	http://yeehsu.freeshell.org
Email	zaken520@gmail.com
Phone	852 9273 7829
Address	Yau Ma Tei. Hong Kong

Professional Skills

- C++ / C# .NET
- OOP & Design Patterns
- Data Structures & Algorithms
- WPF, API, MVC, MVVM
- Agile, CI/CD, TDD, SCRUM
- IPC & Multi-threading

Work Experience

Self Employed ◆ Freelance
January 2024 - Present

- Working on self projects to determine market sentiment, angel/VC investment flows
- Use C# .NET 9 WPF, consolidate information to determine smart/retail/institutional money flow
- Use latest C# tech stack, including minimal API, async WPF app, AWS Cloud and services
- Developed own project to make smart decison trades, risk management, and market sentiment

Senior .NET Contractor ◆ Randstad Hong Kong Ltd. – Temus Ltd. FWD Hong Kong Ltd.
May 2023 - January 2024

- Responsible for WebApi serverless backend development in C# .NET 6 for client FWD
- Implementation of all WebApi using AWS Cloud, RDS, S3, Api Gateway/Lambda, and Redis Cache
- Implementation of all related Engagement (Insurance) related activities on FWD OMNE App
- Requirements gathering, full SDLC on Agile, and full support on every sprint release

Senior Software Engineer ◆ 10kM Trading Ltd.
April 2022 - November 2022

- Lead agile team to develop high freqency-low latency Market Making services/strategies
- Lead the development of Market Data, OMS, FIX connectivity, WebUI, etc in C# .Net Core
- Developed quant and algorithms for real-time automated trading/hedging for Spot/Futures
- Developed in house hedger/executor for traders in C# WPF to easily liquidate crypto assets

Senior System Analyst ◆ Sharp Point Ltd.
January 2019 - March 2022

- Developed new derivatives trading platform in C# .NET Core, WPF, Prism MVVM
- Developed FIX4.2 connectivity with brokers written in C++11, Boost ASIO
- Wrote various micro-services in both C++/C#, C++/CLI, scripts
- Implemented web services, web sockets, web api, windows services, AWS Secret Manager

Senior .NET Consultant ◆ Avanade
November 2017 - December 2018

- Provided .NET consultancy to various fortune 500 clients, including Accenture
- Used C# Web API 2.0, MVC, Message Queue, Asynchronous calls, MSSQL, MSUnit
- Worked in Agile/SCRUM methods including CI/CD, TDD, BDD, SpecFlow, refactoring
- Helped in DevOps, releases, Jenkins, JIRA, Confluence, Selenium, Microsoft Azure

Lead Analyst Programmer ◆ Concord Pacific Satellite Technologies Ltd.
November 2015 - June 2017

- Rejoined company to help lead and revamp entire software infrastructure
- Saved the company from bankruptcy and retained clients due to failing software services
- Lead using C#, MySQL, sockets, threads, WCF, Javascript AngularJS, JQuery, Bootstrap
- Introduced to team: Agile, TDD, NUnit, MantisBT, SVN, GIT, Skype, Google Maps

Contrator / Developer ◆ Global Talent Services Ltd. – Unisys Hong Kong Ltd.
January 2015 - November 2015

- Independant contractor implemented banking Signature Web Viewer Verification system
- Fullstack using VB/C# .NET, WCF, HTML5, CSS3, AngularJS, JQuery, AJAX, REST, MSSQL
- Part of full SDLC in various phases, staging, SIT, UAT, then LIVE

Software Engineer ◆ Sungard Global Trading Ltd.
August 2011 - December 2014

- Participated in development of real-time trading platform in WIN32 C++
- Worked with various teams OMS, FIX, Market Data, Market Access, and Exchange PMs
- Debugged trading algorithms, strategies on cash, equities and derivative market
- Cross functional teams using Agile, TDD, and daily SCRUM to meet sprint targets

Sr. Software Engineer ◆ QVIVO Ltd.
October 2010 - August 2011

- Developed cross platform media player in standard C++/STL, Boost library, threads
- Integrated Facebook API, cURL, AWS Cloud, IPC and memory sharing libraries
- Used Agile, TDD, Google unit testing, FFMpeg, Scaleform GFX, DirectX, OpenGL

Sr. Software Engineer ◆ Concord Pacific Satellite Technologies Ltd.
November 2008 - October 2010

- Innovated Web Traffic & GPS software for fleet management
- Embedded media player development using WinCE C++ MFC, WIN32, COM, HTTP, FTP
- Developed backend in C Linux, sockets, POSIX threads, MySQL tunning

Sr. Software Engineer ◆ OPSWAT, Inc.
April 2005 - October 2008

- Number 2 employee, helped innovated and grew the company to 500+ employees
- Created new and profitable software in Security/Antivirus/Antispyware/Firewall SDK
- Implemented API library in OOP C++, C#, Java to serve clients such as Cisco, DOD

Education

Bachelor of Computer Science ◆ San Francisco State University
1996 - 2002

Focused on System and Software Design. Network Communications. Integrated Circuits, Engineering. Data Flow Automata. Discrete and Complex Analysis.