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WILLY YEO CHUAN HENG

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Contact No : (+60)12-304-2505

Date of birth : 25th June 1981, **Age** : 36

Race : Chinese, **Marital Status** : Married

Self VP OCBC
wife

Career Objective

Am a technology evangelist that thrives and strongly believes in the catch phrases such as "Learning never stops" and "Knowledge is power". Have extensive knowledge in legacy languages and systems such as C, C++, Delphi, C#, Net Compact Framework, ASP.Net, VB, Perl, BASH, etc and also as of lately begin to dabble with in demand technologies and stacks such as AWS cloud (EC2, S3, Route53, Codeploy, Opswork, SNS, SES, VPC, Lambda, etc), Redis, Elastic Search, MongoDB, RethinkDB, NodeJS, PHP Zendframework 2, AngularJS, Wordpress and many others. In a nutshell, am passionate about technology & intend to lead/manage a team to achieve the impossible.

Experience

2016 - present

CHIEF TECHNOLOGY OFFICER (CTO)

Social Property Sdn Bhd - Puchong, Malaysia

Responsible in driving the company's technological direction. Overseeing as well as actively involved in the development of the software solutions provided by the company. Currently being indoctrinated with various open source stacks and frameworks on a daily basis. Solely responsible in leading and managing a team to ensure that modules are completed in a timely manner.

Utilizes cutting edge technology such as AWS cloud (Amazon Webservice), Containerization (Docker), Container orchestration (Kubernetes, k8s) and Continuous Integration/Continuous Delivery pipelines (Shippable, Wercker), Microservices (via the use of NodeJS), Elastic search, Redis, MongoDB (no sql variant), PHP Zendframework 2, etc

Did several feature enhancement for the iOS mobile application in objective-C as well as apple push notification certificate renewal and application publishing to the apple store.

2015 - 2016

CHIEF TECHNOLOGY OFFICER/DIRECTOR

Code5 Solutions Sdn Bhd - Scott Garden, Malaysia

Responsible in driving the company's technological direction. Amongst the notable projects that were undertaken during his 1 year stint with the company are "MyLangkawideals.com", an online ticketing service that is fully SSL compliant for the various attractions in Langkawi with a complete ecosystem for digital redemption at participating attractions such as Cable Car, Underwater world, Wildlife park, Kilim Geo Adventure, etc.

Skills

Current technology stacks

Native dev languages

Security, penetration-testing, reverse engineering, binary analysis

Qualities

Innovative

Creative

Leadership

Team Work

Management experience

Communication skills

Experience

Pioneered the eco-system for the digital editing system that has been exclusively written and licensed to one of the client to provide image editing (eg: Ice skating ring photography service) for merchandises such as mugs, photo frames, etc.

Also responsible in performing penetration testing and security audits for all software and modules written by the company.

2013 - 2014

APPLICATION SUPPORT MANAGER / SOFTWARE DEVELOPMENT MANAGER

IRIS Corporation Berhad – TPM, Malaysia

As an application support manager, he is responsible in ensuring that all systems are kept up to date and in operational mode. He has also undertaken a new role as a technical manager, and with that, has been assigned a team to undertake various technical research and development work that is required to keep the sales team aligned with cutting edge technology. Amongst the task that are required of him are to develop demo kits that are required for the company to stand above the rest, amongst the other industry players in the market.

Amongst the countries that were under his supervision during this brief period of 2 years are Nigeria, Senegal, Tanzania, Cambodia, Bahamas, Bangladesh, Maldives, Guinea Conakry

2009 - 2012

SOLUTION ARCHITECT/TECHNICAL LEAD

IRIS Corporation Berhad – TPM, Malaysia

As a Solution Architect cum technical lead and also the lead developer, he is responsible for designing, developing and above all, leading a team of developers to implement the entire Electronic ID System, such as :

Tanzania electronic-ID project

- Development of utility classes to supplement and aid in expediting the overall development process.
- Development of bridge interfaces to enable legacy Dotnet 2.0 and 3.5 classes to be utilized in Dotnet 4.0 (WPF) without changes to the existing legacy classes.
- Development of an assorted array of windows services to supplement the current maintenance task with a highly scalable scheduling engine which is capable of waking up and snoozing whenever required.
- Development of a highly robust and scalable WCF/Web App publishing engine which is capable of being embedded into a setup package via the openly available InnoSetup engine.
- Wrote perfunctory SQL scripts to perform data patching, simple report generation and data insertion.
- Helped to diagnose and resolve real-world scenarios and provide viable and optimal solutions to the problems on-site.
- Development of an auto-update engine that is capable of pushing updates to the end-user client application and also as a repository that supports sub-repository hosting and deployment (all via a highly scalable and simplistic plugin architecture).

Languages

English (*written & spoken*)

Bahasa Malaysia (*written & spoken*)

Hokkien (*spoken – Dialect*)

Cantonese (understand)

Technologies

Amazon AWS

Elasticsearch

NodeJS (ES6)

MEAN.JS (Express & Koa)

Microservices

Containerization (Docker)

Continuous Delivery / Integration
(Wercker, Shippable)

Source Control (GIT)

Experience

- Development of an in-house licensing system built entirely from scratch that is capable of providing industry strength AES encryption whilst maintaining licensing legitimacy via RSA PKI validation.
- Reverse engineering and binary analysis research work

Handheld & Mobile Device Development

Responsible for designing, developing and above all, leading a team of developers to implement various mobile and hand-held projects, such as :

- JPI, PDRM and JPN Windows CE 4.2.NET / Windows CE 5.0 hand-held application. Capable of retrieving and verifying MyKAD particulars on the fly via the use of GPRS.
- Various other SDKS and utilities that will be used as a basis for future development on the mobile platform (Via the use of Microsoft .NET Compact Framework and eVC++).
- Lead a team to design, development and implement an entire Windows Mobile 6.0 system from scratch in Microsoft .NET Compact Framework 2.0. The system was supposed to be utilized nation-wide as the National Fuel Subsidy program. System is capable of reading and verifying MyKAD, retrieving MyKAD details over the air, fingerprint verification, etc.

PC/SC SmartCard SDK for reading the GMPC Card (MyKAD)

Written entirely from scratch with minor references to the MyKAD's memory structure a simple and ultra-lightweight SDK that is capable of retrieving JPN, JPN and Immigration, information from the national identity card. (including both Text and Biometric Details such as fingerprint, photo,,etc).

2007 - 2008

SYSTEM ANALYST

IRIS Corporation Bhd – TPM, Malaysia

Turkey ICAO E-Passport Project

As a System Analyst, he is responsible in the development of various SDKS in languages such as Microsoft C#.NET, Visual Basic 6, Microsoft Visual C++ 6, Microsoft Visual C++.Net, Delphi and various other proprietary scripting languages.

Senegal ICAO E-Passport Project

The project involved implementation of ICAO-compliant electronic passport Personalization System. As a System Analyst, he is responsible in the development and implementation of the various SDKS and the core Personalization, Quality Control and Chip Inventory module.

Databases

Microsoft SQL (T-SQL)

MySQL (T-SQL)

Oracle (PL-SQL)

Postgres (T-SQL)

MongoDB (nosql variant)

Redis (key value datastore)

RethinkDB (nosql variant)

Dev Platforms

Windows Desktop, Services, DLL, API

Windows Mobile/CE (NetCF, eVC++)

Linux variants (BASH, etc)

Apple iOS (Objective-C)

Web (front-end)

Web (back-end, REST, SOAP)

Wordpress plugin development

Experience

2006 - 2007

SENIOR SOFTWARE ENGINEER

IRIS Corporation Bhd - TPM, Malaysia

Bahamas ICAO E-Passport Project (SDK)

As a Software Engineer, he was responsible for the development of the ICAO LDS data creation and the LDS data decoding software development toolkits. He is also responsible for the development of the various SDKS that is used throughout the entire passport system.

Maldives ICAO E-Passport Project (SDK)

As a Software Engineer, he was responsible for the development of the ICAO LDS data creation and the LDS data decoding software development toolkits. He is also responsible for the development of the various SDKS that is used throughout the entire passport system.

Nigeria ICAO E-Passport Project

The project involved implementation of ICAO-compliant electronic passport Personalization System. As a Senior Software Engineer, he is responsible in the development and implementation of the various SDKS and the core Personalization, Quality Control and Chip Inventory module.

2005 - 2006

SOFTWARE ENGINEER

IRIS Corporation Bhd - TPM, Malaysia

Cambodia ICAO E-Passport Project

The project involved implementation of ICAO-compliant electronic passport that includes the Passport Personalization System, Passport Payment and Approval System, Enrollment System and the Passport Quality Control System. As a Software Engineer, he is responsible in the development and implementation of the various SDKS and the various systems mentioned above.

Somalia ICAO E-Passport Project (SDK)

As a Software Engineer, he was responsible for the development of the ICAO LDS data creation and the LDS data decoding software development toolkits. He is also responsible for the development of the various SDKS that is used throughout the entire passport system.

Hobbies

- ★ Programming
- ★ Reverse engineering
- ★ Scuba diving
- ★ Compound & recurve archery
- ★ Photography
- ★ Mountain trekking & camping
- ★ Tennis
- ★ Bowling
- ★ Paintball

Experience

Senegal ICAO E-Passport Pilot Project

The project involved implementation of ICAO-compliant electronic passport Personalization System. As a Software Engineer, he is responsible in the development and implementation of the core Personalization and Quality Control module.

2004 - 2005



ENTREPRENEUR/SOFTWARE DEVELOPER

Online shareware development joint venture

Among the projects that he has single handedly designed, implemented and rolled-out during this transitional period are softwares such as :

- **AdSense Desktop** (Google AdSense Helper Utility, that enables google's advertisement mangement program to be managed as a desktop application)
- **CommercialZip** (A compression / decompression archiving tool similar to WinRAR, WinZip, etc). The language that was selected was Borland Delphi 7 due its robustness, scalability and above all, the extensibility and performance that the platform could provide.
- **LanguageLocalizationLib** (A robust library written in Delphi 7 to enable on the fly runtime localization of the entire GUI without having all with just an inclusion of a library, was a contender in terms of feasibility and robustness to a commercial library with the name "SML")

2004 - 2004



SOFTWARE ENGINEER

KEYQUOTES Sdn Bhd – Sri Hartamas, Malaysia

During his short stint in this software house which specializes in the development of various stock market historical data analysis software, he was in charge of enhancements and bug fixes to the helper utilities which are being used in-house. Borland's Delphi 3 was the language of choice for all development related projects and tasks for the company.

2003 - 2003



SOFTWARE ENGINEER

Illusions-ska Sdn Bhd – Sri Hartamas, Malaysia

As a programmer, he was in charged in the design and implementation of one of the various SMS contest that required immediate development in pure MFC C++.

Countries of work experience

- **NIGERIA (ABUJA)**
Total : 2 months
- **CAMBODIA (PHNOM PENH)**
Total : 4 months
- **SENEGAL (DAKAR & Guediawaye)**
Total : 3 months
- **TURKEY (ANKARA)**
Total : 3 months
- **TANZANIA (DAR ES SALAAM)**
Total : 3 months
- **PHILIPPINES (MANILA)**
Total : ½ month

Education

- **THE NOTTINGHAM TRENT UNIVERSITY - Nottingham, UK** 2002
BSC Software Engineering (2nd Class honours – 1st Division)
- **KOLEJ BANDAR UTAMA - Bandar Utama, Malaysia** 2001
Higher National Diploma (HND)
- **KOLEJ BANDAR UTAMA- Bandar Utama, Malaysia** 2000
National Computing Council Diploma (NCC Diploma)
- **SMK LA SALLE KLANG - Selangor, Malaysia** 1998
Sijil Pelajaran Malaysia (SPM)
- **SMK LA SALLE KLANG - Selangor, Malaysia** 1996
Pelajaran Menengah Rendah (PMR)
- **SRK LA SALLE KLANG - Selangor, Malaysia** 1993
Ujian Penilaian Sekolah Rendah (UPSR)

Acknowledgement

■ Awarded a bug bounty and letter of commendation for vulnerability discovery

As part of the ISO27001 (Information Security Management) accreditation by IRIS Corp Bhd, voluntarily initiated penetration testing and uncovered several digital security vulnerabilities and exploits to the company's intranet system that would enable competitors and external entities access to very private and confidential information on the company and its employees. Provided the necessary consultation to patch, mitigate and eventually eliminate the risk in its entirety.

Training

■ THE INTENSIVE ENLIGHTENED LEADERSHIP WORKSHOP (UNDERSTANDING "I" TO INSPIRE & LEAD THE TEAM) by COMFORI conducted by Louisa Chan

Attend a training organized by IRIS Corp Bhd during his tenure as an application support manger cum pre-sales software development manager to better understand and bridge the gap amongst the millennials, gen x, gen y and baby boomers.

Professional Attributes & Work Aptitude

- Thrives in demanding and stressful situations.
- Commands and gives equal respect to/from peers and subordinates.
- Possesses unbounded dedication and sees tasks through completion.
- Dependable, reliable, trustworthy and above all, a natural born workhorse.
- Extremely passionate about the job and takes great pride in delivering only the best.
- A compromising team player that is not afraid to take charge whenever called upon.

Relevant Experiences

Various freeware / shareware utilities have been developed throughout the years and was made available on the Internet, and among the few notable ones are :

- **ProcRecon** (Freeware, task management utility that works for Win9x, Me, Xp, etc, <http://webchitect.com/ProcRecon>, now defunct)
- **AdSense Desktop Utility** (Shareware, to manage Google's ad program as a desktop application, now defunct)
- **Insanebot** (Popcap's Insaniquarium bot written in AutoItV1, now defunct)
- **InsaneClicks** (Popcap's Insaniquarium helper utility written in AutoItV1, now defunct)

Wrote and developed the following for educational purposes :

- Keygenerators for illegitimately generating a legit serial number for the purpose of duping the software that it was purchased.
- Generic and universal patchers for the purpose of defeating the protection mechanism to prevent a software from being illegitimately used.
- An exact replica in terms of functionality of a certain library that was re-written from scratch after having reverse engineered the initial library written in a natively compiled language (C++) by an external vendor via the use of IDA Pro.

References

Mr. Vincent Tan Teck How

Managing Director

Shockmedia Studio Sdn Bhd /
Social Property Sdn Bhd

Phone: +60 173333550

Email: me@vincetan.com

Relationship: friend in
school and current superior at
social property / known since 1994

Nabil Zhafri Yahaya

Senior Software Developer

Social Property Sdn Bhd

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Email: nabil.zhafri.yahaya@gmail.com

Relationship: Coworker at
social property / known since 2016

Sathya Das

Associate Director

NIELSEN MALAYSIA

Phone: +019 2305843

Email: sathyadas.haridas@nielsen.com

Relationship: friend via an ex-
subordinate in iris / known since

2015

- Yes would hire ✓
- work ethic positive
- in tune

- pet projects, free ware releases
- impressive code regularly

Daren Singh

QA Engineer

YOPESO Sdn Bhd

Phone: +019 8019191

Email: daren.singh@yopeso.com

Relationship: ex-colleague at
iris and ex business partner in
code5 solutions / known since 2007

- good in talking, good in work, should
- work with him again - YES hire.
- known him as
- manager in iris, managed his staff
well.

Shannon Lam Mei Kuan

Project Manager

TF System Bhd

Phone: +012 6709273

Email: Shannon.lam@tfsystem.biz

Relationship: ex-colleague at
iris / known since 2008

- 5 yrs → work together colleague
- hardworking
- dedicated
- yes really recommend
- very knowledgeable
- spends time on R&D