Eric See Kian Seng

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OBJECTIVE

To be an expert innovator and designer of solution applications that are impactful. Never stop learning & always on a lookup for new technologies that I can learn & leveraged.

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CAREER HIGHLIGHTS

- Won 1st Prize STE Electronics Business Innovation Award 2015 for SNAPi & NOPO solution in STEE-Infocomm. **Chief Architect/Developer** for the end-to-end solution. One of **SITF 2015's 12 Finalist in Best Infocomm Innovative Products (Enterprise).** Product used by STEE-InfoComm for carpark enforcement.
- 16 years of software industry experience, strong innovative and technical background.
- 5+ years at Lead/Architect for cloud and on-premises software & mobile solution.
- Successfully implemented Service Report on Mobile to replace manual. (Integrated SugarCRM & HPSM).
- CCNA Trainer.
- Experience application integrator in APIs & SOA environments.
- Experience in Command & Control, Train & Signal Simulation Domains.

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WORK EXPERIENCE

Solution Architect

STEE InfoComm Pte Ltd, Singapore, Nov 2016

System & Software architecturing.

Develop solutions and POCs.

Project Management for LTA project.

CMMI & SQA lead.

Support tenders in term of technical solutioning.

Solution (Application) Architect

CrimsonLogic Pte Ltd, Singapore, Dec 2015-Jun2016
Works in Architect Office.

- Define Baseline development tools, technologies & software design patterns.
- Setup TFS and Azure as Dev Ops tools for ASP.NET MVC project.
- Setup & Develop projects using SCRUM iterations and Git as Source control.
- Extensive use of Cloud technologies like Azure IaaS & Openshift PaaS for deployment.
- Architect and Develop project in ASP.Net MVC 5, JQuery, Bootstrap, SSIS as ETL tool, SSRS as reporting tools & Microsoft AD as single logon.
- Workflow Development in .NET MVC.
- Architecting Form Engine using JQuery, AngularJS, NodeJS, Bootstrap, KendoUI, MongoDB & Rest API for responsive SPA.

- Vet interviewees to judge whether suitability for project and company

Software Architect for Cambodia ECO project
- Design trade web using .NET, SQL Server & bootstrap.
- Use TFS and Azure Cloud as DevOps between customer and development team.
- Interface with CoSign Security Appliance.
- Form generator using iText.
- Workflow design and implementation.
- DocuSign On-Premises Integration

Others
- AWS fine-tuning & maintenance. (EC2 on demand, Spot, CloudFront, S3, Kinesis, RDS MySQL with replica).
- Admin & API Application using Google Chart, Google Authentication, ASP.net MVC, Quartz.NET, AWS API & MySQL.
- Propotype using Linux & ASP.net core for future migration.

Solution Manager(continued)
ST Electronics (Info-comm) Pte Ltd, Singapore, Dec 2013-Dec 2015

Collaborate with customers for requirements & translate into specifications for development team.

Collaborate with stakeholders for new initiatives & in charge of the overall technical solution.

Identify areas to improve in terms of productivity, propose, design solution, prototype & implement.

Validate and make decisions on vendor's products to be used in projects/products.

Define technology roadmaps & frameworks for End-to-End projects/projects across division and software team (MVVM, MVC, Unity, Logging, NHibernate, Entity Framework, SOA, etc).

Define development methodology for team.

Manage, Build & Lead Team with Software, Network, Database & Infrastructure expertise.

Develop products/solutions & provide technical services for projects across division.

Support presales in terms of tender feasibility study, costing, manpower estimates, scheduling, solution, proof-of-concepts, tender proposal write-up and presentation.

Some technical solutions architected:

1. _**HDB Enforcement (Network, Software & Database Designs)**_
   - Architected End to End Solution (including the hardware design).
   - Architect Client module using WPF, MVVM Prism, NHibernate, Log4Net & MySQL.
   - Architect Server module using Entity Framework 6, WCF Web Services & MySQL.
   - Reporting module using JSF, PrimeFaces, Log4J, JPA & MySQL running on Tomcat.

- Setup Photo-management modules using PhoneGap+HTML5 for Android clients, SFTP, Java RESTFUL web service & Open source photo gallery.
- Built middleware to pull new XML & Flat messages.

2. *Helpdesk (Network & System Design)*
   - Designed network solution for main DC & recovery DR sites including sizing of hardware.
   - Designed database DR solution using LOGSHIPPING.
   - PABX and Customer Relationship Management System

3. *Fleet management Tracking System (Solution & Software)*
   - Location transmitting devices fitted on vehicles.
   - Using Java REST API, AngularJS and GoogleMap.
   - Generate reports & statistics.

4. *eService Report*
   - Phone module using HTML5 & Phonegap.
   - Use SugarCRM as Service Desk.
   - Built SMS gateway using C#.
   - Using Java as Middleware to sync between HPSM's SQL Server and SugarCRM's MySQL.
   - Using TIBCO Jasper as reporting tools for customer and internal audit.
   - Using .NET RESTFUL webservices for distributed modules communication.
   - Design End to End solutioning including network architecture.

Technical Manager
ST Electronics (Info-comm) Pte Ltd, Singapore, May 2012-Nov 2013
Manage/lead a team of 7 software leads/COTS leads/engineers for government project.

Engage end-users/customers to understand their requirements, needs and expectations & translate them into technical functions.

Collaborate with internal Business Unit for technical & contractual issues.

Integrated with external vendor modules.

Planned, sized & managed infrastructure for production environment.

Wrote Technical documents.

Use the following Processes & Tools for Application Development Environment:
- VisualSVNServer & TortoiseSvn Client for Version Control.
- Cruise Control.Net, MsBuild & SVNStat for Build Server.
- Mantis for Bug Reporting & Issues logging.
- AGILE sprints for main SDLC methodology.

- OpenFire & Pidgin for internal project communication.
- ReSharper & FXCop for refactoring of codes.

Implemented application design features:

- Using of Microsoft technologies based on N-Tier architecture.
- Using of NHibernate for Data Access Layer.
- Using of XML as Central Configurations & Preloaded Constants.
- Using Dynamic Language Runtime for dynamic Expressions (IronPython.NET).
- Using of Dependency Injection & Inversion of Control (UNITY Framework).
- Using of Central logging mechanism onto Event logs, Consoles & Files.
- Leverage on Ms Office's filters & iTextSharp to extract/create MS Documents & PDFs.
- Using of NUnit for Unit testing.
- Using of thread pool with maximum threads threshold to prevent resource overload.
- Distributes threads to available servers & CPUs in each server for load balancing.
- Using WCF Web Services as SOA services & WPF UI (MVP architecture).
- Use of Biztalk and IBM Websphere MQ as midleware.

Travel to Israel for integration & training for 3 weeks

SOFTWARE Team Lead (Simulation, Train Signaling & H/W control)
CAE (S.E.A), Singapore, Dec 2009 - May 2012
Software & Technical Lead of 4 man team.

Completed 2 **simulation projects** successfully including one Brunei Project.

Architected software, network, database & system design for projects.

Integrate distributed application modules written in Java, VC++ & C# together for model train system using shared memory, piping & networking.

Developed modules using VC++ Multithreading, ASP.NET, XML, VC#, ASP.NET, MySQL & WPF.

Implemented SOA services to control devices using C# Remoting.

Simulate train fix block signaling on physical trains, stations & tracks. Integrate ATS (Automatic Train Supervision) as part of ATC into Train model.

Implemenedt hardware control using I/O cards, RS232 & Ethernet (TVs, Polycoms, RTS Zeus, Video Matrixes & Processors, Ubox, AV Systems, Projectors, Sensors & UPS).

Designed HP routers & switches for multiple VLANs, Trunking & Sub-interfaces for control center.

Leverage of open-source tools to be integrated into applications:
- (Lame Encoder & ffmpeg) to record/replay sound & video
- VLC Media for broadcasting/recording.

Travel to Germany for On Job Training & application integration for 3 weeks.

Lecturer (CCNA, SOLARIS & Software Application)
ITE College East, Dec 2005- Nov 2009
Staff Advisor of Lion and Dragon dance & SICT Academic Social Club.

Trainer for **CCNA** night classes & **Sun Solaris** electives.

Participated in industrial attachments.

Join 5 inter-college competitions and won something in all of them.

Proposed, designed & developed applications to improve department work processes & reduce papers using Apache 2 & PHP 5, MySQL 5.0 & ArgoUML0.2.

System Analyst
NUS, Oct 2002-Nov 2005
Architect library application for NUS Business Library that has 3000 users.

Architect & design Library system to use VB Scripts, Javascript & VB.NET, triggers, Java Swing, XML, Java Xerces, Java Mail, Java Help, Java Print, ASP.NET, VBScripts & MS QL Server.

Successfully imported & migrated data from ORACLE 9i Data sources to MSSQL Server.

Implemented Java-Based Email-sending on Linux platform as middleware.

Implemented CRON jobs in Linux to clean up & archive old logs.

Architected ASP.NET C# pages for administration.

Software Engineer (Command & Control Application)
Thales Information System, Jul 1999- Jul 2002
Promoted to team lead (4 Person).

Implemented **Command & Control** project to monitor and track fire vehicles using Motorola equipment, GPS, DGPS using Server-Client software.

Developed programs on UNIX C, Shell Programming & Socket Programming with XMotif UI.

Handled GIS (Geographical Interface System) & vector maps for project on Solaris machine.

Solaris administrations on Solaris and Windows machines.

Implemented gateway interface using VC++ Multithreaded, Socket & Registry programming.

Integrated gateway application using RF wireless communication with Motorola's Mobile Data Terminals & PABX.

Use Rational Rose UML to design Sequence, Flow & Class diagrams.

EDUCATION

Certified Sun Solaris 10 Administrator	**Suns Microsystems**	2008
Certified Oracle8i DBA	**Oracle University**	2003
Specialist Diploma in E-Commerce	**NYP**	2000
Bachelor of Applied Science (Comp Eng.)	**NTU**	1996-1999

LANGUAGE SKILLS

Speak & Write in **English** & **Chinese**

PERSONAL PROJECTS

Expenses Tracker   2002 - Present
Personal Expenses Tracker hosted on Openshift
Using PHP, MySQL, iText & Apache Http Server

Spedco Kaltim Intranet   2008
Web application using .Net, SQL Server & Web Service

Advertising Chat   2016 - Present
Hosted on AWS Ubuntu
Using NodeJS, Redis, Html5 & Socket

Game Video Streaming /Advertising   2016 - Present
Hosted on AWS Ubuntu
Using PHP APIs, Redis, MongoDB, ElasticSearch, Kibana, Nginx, Python. Standardise all messages
to be JSON.

Warehouse Management System   2016 - Present
Hosted on AWS Ubuntu
Designed End to End Flow & Technology Stack using PHP, Mobile, Nginx

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HOBBIES

• Software & Technologies   • Music   • Jogging