

Arasun (Sri Murugarasan Muthukrishnan)



Microsoft
CERTIFIED
Professional

Microsoft
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Systems Administrator

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EDUCATION

Malaysia University Science &
Technology (MUST)

2016- 2017

University Malaysia Sarawak
1994 - 1998

Informatics Institute
1992 - 1993

Masters in Science (IT) by Research

Research: Computer Security Maturity Model

Bachelors in IT (Systems Technology)

Certificate in Computer Engineering & Servicing



CERTIFICATIONS

Cloud Sec Alliance 2023

HIPAA Exams 2022

TUV SUD 2021

RPM 2021

HRDF 2020

PMI 2020

ISC2 2006- 2013

ISACA 2008

Axelos 2009

Microsoft 2001

Comptia 2000

Cloud Security Knowledge CCSK

HIPAA for Business Associates

Lead Implementor ISMS ISO27001:2013

Lean Six Sigma Yellow Belt

HRDF Certified Trainer

Project Management Professional (PMP)

Certified Information Systems Security Professional (CISSP)

Certified Information Security Manager (CISM)

ITIL Version 3.0

Microsoft Certified Systems Engineer (MCSE)

Microsoft Certified Systems Administrator (MCSA)

Microsoft Certified DB Administrator(MCDBA)

Microsoft Certified Professional(MCP)

Network +



PUBLICATIONS

Publications

2016-2018

Citations 24

h-index 23

i10-index 1

Security Metrics Maturity Model for Operational Security

IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE) - 2016

Systematic Mapping Review on Student's Performance Analysis using Big Data
Predictive Model

Journal of Fundamental and Applied Sciences - 2017

Big Data Framework for Students' Academic Performance Prediction:
A Systematic Literature Review

IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE) - 2018



WORK EXPERIENCES

AINQA Health
SDN BHD

Apr 2021-
Jan 2023

Cyber Security Manager

With wide range of healthcare products developed in-house, the role requires , key strategic responsibilities in two areas: Enterprise Security for the company and product security programs.

Enterprise Security

- Advising leadership on Cybersecurity issues, systems, processes, products, and services.
- Supporting CTO in **facilitating information security governance**, and provide advice on security direction and resource investments to reduce security risks.
- Successfully introduced **Monthly Security Posture Reports** to C Level Suites that contains various security metrics.
- Maintaining oversight of the design and implementation of IT/business systems to ensure appropriate and effective security controls are included.
- Develop and maintain a strategic, comprehensive, and pragmatic enterprise information security system compliant with **ISO-27001 / NIST SP 800-53 / HIPAA** ensuring the organization is ready for these certifications.
- Lead engagements with IT & security vendors for mutual success, acting as inter-departmental Security consultant on all new vendor evaluations.
- Provide security communication, awareness, and training for audiences, which may range from senior leaders to field staff
- Responsible for the development and oversight of the company's information security and risk management methodologies, strategy, policies, awareness programs and security goals and metrics
- Works with senior management to identify, define and confirm the key threats to the company's information assets, internally and externally
- Introduced **comprehensive compliance checklist** for any projects implemented internally or customer facing
- Drafted incident response and **BCP plans** for the Enterprise as well client facing projects.
- Oversight and driving activities related to : **KeyCloak** IAM, SIEM - **OSISIM AlientVault** for Linux Servers in Cloud, (Endpoint)

Product Security

This role is to champion security in all products by incorporating secure development practices by tracking **security maturity of all products**. This is a dynamic product security role, requires the ability to multi-task across several projects concurrently, adapt, and develop deeper expertise as needed; drive activities that leads to product certification / accreditation by participating across all project management phases including inception, scoping, gap analyses, consulting with internal teams, presenting findings, remediation, certification, external audit engagements and maintaining risk register. The role also requires me to thrive on managing a team of security engineers and working with development teams to secure products. This role also requires to oversee / conduct daily scrums as part of the product security requirements. Among the key responsibilities / achievements are:

- Successfully established **Product Security Group** (AINQA ProdSeG) that enforces product security policies and procedures in SDLC
- Member of the **Enterprise Architecture Review Board**, providing security inputs ensuring overall architecture adhere to industry best practices and complies to regulatory requirements.
- Introduced regular and in-depth security reviews, **static/dynamic testing** tooling to reduce and eliminate attack vectors and vulnerabilities in our products.
- Introduced best practices and guidelines **Container / Microservices Architecture and API Gateway security** controls
- Introduced and enforced process, policies, procedures and tool for **mitigating risks in software supply chain**
- Introduced process, procedures and a tool for threat modelling activities using **STRIDE model**
- Lead and working with Office of the **National Coordinator for Health Information Technology (ONC)** for product security **Certified Electronic Health Records Technology (CEHRT)** under the Department of Health United States, ensuring controls are implemented in the products.
- Ensuring Hospital **IoT Devices and modalities** such PACS, MRI Scanners etc are developed adhering to industry best practices (**ISO/IEC 30141 / NIST IR8259**) when interfacing with AINQA products.
- Planning and **realization of internal audits**, as well as ensuring the smooth running of external audits to achieve certification.
- Developing product security training for new capabilities and conduct **awareness trainings** and programs for developers.
- Working with Business Analysts, building **non-functional requirements** (security) for application teams to implement required controls.
- Manage **VAPT team** in performing Vulnerability Assessment & Penetration Testing using OWASP guidelines.
- Initiated **API Governance Program** across the enterprise for maximize the value of API creation and securely manage them.



WORK EXPERIENCES

AXIAL BZ TECH Sdn Bhd

Feb 2017-
Dec 2019

Security / IT Project Manager

- This role has a central and key role in working with Information Security, Internal Audit, Business Stakeholders, and Regulatory Bodies to ensure the company information security and non security projects assigned are **risk 'managed for 'regulatory compliance** and in compliance to company standards and policies.
- **Hands on project management role** that equires technical tasks as well as managing and implementing processes and procedures to ensure security priorities and compliance objectives are met.
- Partner with Technology and business teams to ensure security practices, alerts, and risks are understood by the team and built into the solutions, processes, and pipeline.
- Manage the information security programs/projects that focus on **technical security controls** to meet internal policies and compliance with regulatory and industry standards.
- Responsible for **audit issues** raised and seeking for the **closure** by working with the respective technology teams.
- Play **advisory role** for both security and non security projects from the inception of a project to going live, advising on internal security policies and regulatory compliance if any.
- Develop and deliver guidance to IT service and product owners to ensure compliance requirements are built into solutions during definition and implementation, and managed throughout their lifecycle.
- Successfully developed and implemented **Secured Software Development Life Cycle (SSDLC)** from end-to-end.
- Prepare and manage to Plans of Action & Milestones (POA&Ms) to demonstrate progress toward or compliance with information/cyber security requirements, including detailed justifications for program-required non-compliant items
- Part of the team implemented **SIEM** using open source ELK.
- Part of the **Active Directory Pen Test** team and developers security program team

Prosperre Solutions Sdn Bhd

Aug 2011-
Nov 2016

Managing Partner

This job requires multiple roles as a partner, overseeing overall company strategy and day to day operations mainly in three areas: Web based Application Development / Web Hosting , Technology trainings and limited engagement in IT Security & Auditing.

Strategic Roles

- Maintain organization's effectiveness and efficiency by defining, delivering, and supporting strategic plans for implementing information technologies.
- Accomplish financial objectives by **forecasting requirements; preparing an annual budget**; scheduling expenditures; analyzing variances; initiating corrective action.
- Maintain quality service by establishing and enforcing organization standards.

Service Delivery - Web Hosting

- Responsible for planning, overseeing and driving through the various aspects of on boarding of a company to the hosting services.
- Responsible for coordinating and managing the process with holistic view of all projects including managing a team of people involve in the on boarding
- Act as first point of escalation for **Project Managers** regarding on boarding queries
- Overseeing a small **help desk service** team ensuring meeting the service level, quality, productivity and customer satisfaction.
- Sometimes hands on related technologies such as **CDN configuration / DNS / Shared / Dedicated / Cloud Hosting Configuration**, Troubleshooting on **Website / Application availability** and performance

Web Application Development / Security

- Participate in various web development engagement, mainly in **MEAN stack / PHP / .net** for the Education, Travel, Finance and medical Industry.
- Create and implement project definitions, schedules, budgets, and objectives for small to medium sized projects of moderate complexity.
- Successfully managed a small team of security analysts in making sure application developed is complies with client security policies and any other regulatory requirements. This involves performing Pen Test using Nessus following OWASP.
- Prepare **statements of work (SOW)** for project engagements and monitors performance to ensure that project commitments meet contractual specifications. Determine need for and impact of changes in scope of project and makes recommendation based on determinations and thereafter gain concurrence, approval, and consensus from stakeholders regarding the various project aspects, adjusts accordingly
- Perform ongoing **review of project status; identify project risks**. Develop, recommend and implement risk mitigation solutions as approved and as appropriate.
- Manage mid-level management clients, company management and project team expectations for agreed upon project performance by obtaining and providing **project metrics**. Recommends and implements changes or alternate paths based upon performance and metrics..
- Oversee assigned personnel for projects. Assign work and provide direction with regard to timeliness and completion of project objectives. Address performance issues within prescribed guidelines. Provide performance input upon completion of project through **Project Implementation Review (PIR)**.



WORK EXPERIENCES

Maybank Berhad

May 2006-
Nov 2010

Senior Security Analyst / Project Manager

- Successfully completed as a Technical Manager then as a Project manager for Business Banking Identity Access Management using **CA Identity Manager/Site Minder**. This is a SSO solution integrating with Digital Certificates and Token Management. A very highly complex project that involves **11 vendors** at project over 10 months.
- Continuously identified key data points, provided weekly **Security Metrics Report** for C Level managers and improvise affected areas.
- Excelled in preparing and getting approval on management (**Project Steering Committee PSC**) justification papers for key projects
- Responsible for all the **overseas branch firewall management** (process /procedures /policies), vendor management.
- Being a single **Subject Matter Expert (SME) in AD**, played a major role security in implementing company-wide Active Directory and SMS technologies. The main purpose is to enforce the company ICT Security policy in place besides for a proper desktop management (10,000 desktops)
- Successfully handled and overseeing outsourcing partner managing **Enterprise AD**, establish / enforce / monitor policies, procedures. Playing advisor in all AD related matters as far as technical / integration / budget concerns.
- Ensured all the in-house developed application adheres to **Secure Software Development Life Cycle (SSDLQ)**. This involves working and monitoring developers follow the best practices on secure coding.
- Periodically update Database / server / application **security check list** based industry best practices.
- Played a role as an auditor for **physical security** for a card printing & issuing vendor, ensuring security requirements complied
- Part of the 2 team members, ensuring **Host Security Module (HSM) key ceremony** is properly conducted for various applications in the bank.
- Working closely with users and vendors on complying to various financial regulatory requirements such **PCI, BNM GPIS, Master / Visa**
- Monitored security technology, vulnerabilities and exploit mechanisms to ensure cost effective defense mechanisms are deployed to minimize risk to organization and clients
- Organized company-wide **ICT Security awareness program** to highlight the importance of following security policies.
- Overseeing **desktop and servers patch management** with latest patches and antivirus with latest engines.
- Be part of the **business continuity plan team** and provide clear direction for operations personnel on Disaster Recovery Plan center.
- Provided 7X24 support and response capability for systems security and **virus/phishing incidents**
- Performed periodic information **security risk assessments** including disaster recovery and contingency planning
- Coordinated any reported security incidents, mitigate as much as possible and **conduct damage assessment**.

DagangNet Technologies

Mar 2002-
Apr 2006

Senior Systems Analyst

- Liaising with users (from users to top level management), Business Partners, Cross Border Service Providers to drive for continuous projects improvement.
- Project Management in some of the **application development life cycle**, including planning, design, development, testing, and deployment.
- Providing **leadership for project team**, acting as internal consultant to provide best practices to stakeholders.
- Leading medium size projects, working with regional business analyst and technical teams (Singapore/Indonesia/Taiwan) to deliver solutions for customs declaration across the borders by representing the program/project in validating geo-specific **business requirements**.
- Custodian for Website <http://www.myports.net>, providing Logistics and Shipping Information for Importers/Exporters and Shipping/Forwarding Agents.
- Successfully planned, design and developed **Enterprise Application Interface (EAI)** for major companies to facilitate customs declaration and invoicing through message brokers (Axway XIB). Part of the EAI implementation team with DHL for their customs declarations. Involves standard **message format implementation (XML/UN-EDIFACT and DHL Proprietary format)** and message transfer using HTTPS.
- Successfully planned, designed and **developed application for Certificate of Origin (COO)** for trade facilitation between two countries in ASEAN.
- Managing and undertaking any on going improvement for locally **developed Order Fulfillment Services (OFS)** that caters SMIs and MNCs in their daily operations. A web based (Cold Fusion / JSP) application that utilizes **ROSETTANET** messaging standard.
- Involved in a major project (e-commerce system that addresses trade, logistics and shipping) that covers complete SDLC. Technologies used: Oracle, Cold Fusion, SQL Server 2000, IIS, **ILog Business Rules, Business Process Manager** using Axway XPM, Message Brokers using Axway XIB



WORK EXPERIENCES

Prima Info Technologies

Jul 2000-
Jan 2002

Corporate Technical Trainer

Provide technical training mainly on the following are:

- Comptia A+ / Network+ / Security+
- Computer Security
- Development Using .Net / Cold Fusion / Dreamweaver MX
- Microsoft Active Directory / Servers / Desktops
- Structured LAN Cabling
- EC-Council Security Administrator
- EC-Council Project Management
- Responsible for course content preparation
- Successfully trained about 90% students pass various certification exams.
- Customise training materials suiting corporate clients



OTHERS

- | | |
|---|-----------|
| • AWS Techshift Accelerator Boot Camp | 2018 |
| • MDEC Fintech Boot Camp | 2017 |
| • Grant Recipient for the following NGO Projects | |
| a) e-Bumi, Teaching Geography through Google Earth Technologies | 2009 |
| b) e-Cahaya, Empowering People Living with HIV (PLHIV) through ICT | 2012 |
| c) Positive Online Parenting | 2010 |
| • Ministry of Education Malaysia (MOE) Research Grant Recipient -FRGS | 2016 |
| • Visiting Industry Expert for Final Year Projects – University Taylors, Malaysia | 2017-2021 |
| • CISSP Questions Bank Author / Evaluator – APAC | 2014 |



ONLINE CERTICATIONS

Online Certification
2016-2018

Certified API Security Architect - API Academy
Certified API Designer - API Academy
IoT Foundations: Standards and Ecosystems - LinkedIn Learning
Cloud Security Architecture for the Enterprise - LinkedIn Learning
Securing the IoT: Introduction - LinkedIn Learning
Securing the IoT: Privacy - LinkedIn Learning
Using SABSA to Architect Cloud Security - LinkedIn Learning
Coursera John Hopkins University - Statistical Inference
Coursera John Hopkins University - Reproducible Research
Coursera John Hopkins University - Exploratory Data Analysis
Coursera John Hopkins University - R Programming
Coursera John Hopkins University - The Data Scientist's Toolbox
Coursera John Hopkins University - Getting and Cleaning Data