

## Education

### **Universiti Teknologi Malaysia, Johor, Malaysia**

**September 2011 - July 2015**

BEng. in Electrical Engineering (Mechatronics)

- Courses included Control Engineering, Digital Electronics, Microprocessor & Micro controller and Engineering Management
- Undergraduate Project: Mobile Robot Navigation with Planned Path using Internal Sensors
- GPA: 3.29 / 4.00

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## Employment

### **Sands Consulting Sdn Bhd, Selangor, Malaysia**

**March 2015 - present**

Head of Projects & Services

*January 2016 - present*

- Leads a team of 4 project delivery engineers which are System Analyst, QA Engineer, and Software Engineer.
- Manage pre tender activities and project delivery which involves tender technical assessment and compliance, resources planning and ensure projects are delivered within stipulated timeframe.

Senior Software Engineer

*March 2015 - December 2015*

- Developed bespoke solutions for client needs and requirements
- Facilitates project requirement study with clients to match in house or partner products and solutions.
- Involves directly in project development, system integration, and in house product development related to knowledge management and procurement process.

### **Jaringan Data Sdn Bhd, Selangor, Malaysia**

**July 2012 - December 2014**

Technical Consultant

- Provided technical and programming expertise to develop clients' software requirements.
- Worked tightly with consultants from Sands Consulting Sdn Bhd and Formis Network Services Sdn Bhd.
- Secured two new proof of concepts project with Royal Malaysian Airforce.

### **Dyna Segmen Sdn Bhd, Selangor, Malaysia**

**June 2014 - September 2014**

Engineering Intern

- Trainee project engineer for Cross Country Pipeline Corrosion Control at BHP North Port Installation, Port Klang. Oversaw project schedule, manpower, equipments and materials. Project finished 2 weeks ahead of schedule and 18% below projected budget.
- Lead the procurement team of 4 people for Petronas Carigali High Performance Computing for Seismic Analysis tender submission. Initiated a partnership between IBM Malaysia Sdn Bhd and Paradigm Geophysical Sdn Bhd. The partnership submitted the tender as a consortium.

### **Slashes & Dots Sdn Bhd, Kuala Lumpur, Malaysia**

**June 2011 - August 2011**

Web Development Intern

- Developed one click remote installation system for JomSocial.
- Improved customer checkout and on boarding process with guidance from marketing team.
- Reduced the number of post sales support tickets.

### **Bitfluent Sdn Bhd, Selangor, Malaysia**

**December 2009 - April 2010**

Web Development Intern

- Assisted Engineering Director for various company projects and clients engineering process in programming role.
- Refactored and upgraded 3D video programming administration and backend system. Improves overall workflow efficiency from legacy platform.

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## Projects & Technical Engagements

### **Realink Property Management Solution**

**June 2016 - present**

Client: TCT Apps Solution Sdn Bhd

- Technical lead for backend system and data management
- Developed data dictionary and Application Programming Interface for mobile apps (iOS and Android) and single page application
- Manage application infrastructure such as Amazon EC2, Amazon S3 and Amazon SES.

## **CAREsys Workflow and Product Enhancements**

**August 2015 - January 2016**

Client: Malaysia Airports Berhad

- Functional lead for live customer chat system integration.
- Migrated live chat system from Rails Web Framework to Laravel Web Framework.
- Integrate live chat system into customer service ticketing system providing a unified and singular platform for customer service agent at airports throughout Malaysia.
- Reduced number of servers within current infrastructure from 6 to 4 with better software and platform architecture.

## **Fusion - Product Development**

**March 2015 - September 2015**

Client: Sands Consulting Sdn Bhd

- Manages product requirements and milestones.
- Upgraded and merged three distinct code bases into a single repository which resulted into a single product deployment and provision.
- Expanded client base into banking sector.

## **Selangor Online Tender System 2.0**

**March 2015 - August 2015**

Client: Selangor State Government

- Lead team of 4 software engineers in developing new Online Tender Portal for Selangor State Government.
- Development scopes including web application, mobile application and payment gateway integration.
- Worked closely with Bahagian Teknologi Maklumat of Selangor State Government, Retail Payment Division of Malaysian Electronic Clearing Corporation Sdn Bhd (MyClear) and Global Banking & Transactions at Malayan Banking Berhad (Maybank).
- Integration with Unit Perancang Ekonomi Negeri (UPEN) for vendor registration and reduce the amount of non compliance vendor registration from 2% to 0%.
- First multi recipients retail payment system in government sector and removes the need for Selangor State Treasury for revenue disbursement at the end of month.
- Intelligence tender purchasing system based of MOF and CIDB field codes and reduce the amount of refunds from 1.2% to 0.08% of total monthly transactions.
- Introduced Maybank eBPG Credit Card and MyClear Financial Process Exchange payment gateway. Allows vendor companies a variety of payment options and remove the need for tender document purchase over the counter.
- Manage to increase YoY revenue by 110%

## **Bank Rakyat Digital Library Project**

**June 2015**

Client: Yayasan Bank Rakyat

- Deployment of Fusion, a digital library software solution and integration with SirsiDynix Symphony.
- Provision of internal and external network access & routing and Domain Name System (DNS).
- Reduced the number of multiple library systems' search into a single access gateway search.
- Reduced the storage complexities and enable single access to digital copies of publications and business documents.

## **Library & e-university Integration & GST Compliance Project**

**December 2014 - January 2015**

Client: International Center for Education in Islamic Finance

- Integrate library IT services with INCEIF's e-university system resulted into a singular and unified authentication workflow.
- Provided technical consultancy for GST compliance for existing library subscription system.
- Refactored online subscription system module to comply with Royal Customs Department GST specification.
- Worked closely with INCEIF's Finance Department and Cards Technology Department of Maybank.

## **DobiJahit**

**August 2014 - September 2014**

Client: Jugra Air Force Base, Royal Malaysia Air Force (RMAF)

- Developed a proof of concept service order system for laundry and tailoring within air force base.
- Enabled air force base vendors to estimate workloads.
- Reduced wastage and over payments by ensuring orders are matched with personnel inventories.
- Deployed at Air Operation Headquarters as a trial run for other types of service.

## **Life Item Alert System**

**February 2014 - April 2014**

Client: Air Support Headquarters, Royal Malaysian Air Force (RMAF)

- Developed a proof of concept of materials and inventories shelf lives tracking system.
- Enabled a structured procedures for item disposals and expiries by air force personnels. Shifted workflow from Microsoft Excel spreadsheets to emails and management dashboard.
- Reduced materials wastage by 30% due to ability to project expiry date.
- Deployed to another 12 RMAF material units and warehouses.

## **Animal Quarantine System**

**January 2014 - March 2014**

Client: Department of Veterinary Services

- Developed a monitoring and scheduling system for animal quarantine at Malaysia borders and entry check points.
- Reduced complexity and human intervention in quarantine scheduling by introducing standard procedure and charter across all quarantine centres.
- Ensured readiness and reduced over crowding at quarantine centres resulted from standard scheduling procedures.
- Pioneered audit trail for diseases outbreak investigation with ability to identify animals entry and point of origin.

## **CAREsys Development & Integration Project**

**April 2013 - July 2013**

Client: Malaysian Airports Berhad

- Developed a live chat system for customer service agent within a hybrid networking infrastructure (DMZ and intranet).
- Integration with Malaysia Airports Berhad's Active Directory to provide a unified authentication data point.
- Integration with Exact Synergy CRM platform to provide a seamless user experience for service agents.
- Reduced the response time for general inquiries from 14 days via email to 15 minutes with live chat.

## **Library Subscription & Digital Library System**

**August 2012 - September 2013**

Client: International Center for Education in Islamic Finance

- Developed a custom-build Library Subscription System with the online payment ability.
- Integration with INCEIF library management system to provide unified browsing experience across libraries' IT assets.
- Provisioned and deployed of Central Authentication Server as a Single Sign On service in providing unified browsing experience.
- Enabled INCEIF Knowledge Management Center to become a revenue generating unit with minimum revenue of RM30,000/year.

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## **Speaking / Technical Panel Engagements**

### **Expert Panel, Technical Scaling Clinic**

**September 2015**

MAGIC Academy 2015, Cyberjaya

### **Interview Panel, ALPS Program**

**January 2015 - present**

Malaysian Global Innovation & Creativity Centre

### **Speaker, JOMWEB Tech Sharing September 2014**

GREAT 2014, Cyberjaya

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## **Honors & Awards**

### **1st Place Winner**

**March 2015**

Emirates Travel Hackathon, Singapore

### **Undergraduate Scholarship, Public Service Department**

**June 2010**

Public Service Department of Malaysia

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## **Skills**

- Proficient with C, C++, ASM, Python, Ruby and Java programming languages
- Solid understanding on web technologies - HTML, CSS, JavaScript which include modern framework such as ember.js and AngularJS
- Experience in setup and maintain high availability web services stack which includes Linux (mainly Debian), nginx web server, MySQL database
- Familiar with AVR ATMELE and Freescale Freedom micro controller and RaspberryPi embedded computer
- Speak and write in Bahasa Melayu and English

*Reference will be provided upon request*