Shulhi Sapli

Cell	+6019-725 6005	**Email**	shulhi@gmail.com
Website	http://shulhi.com		
Github	https://github.com/shulhi	**Bitbucket**	https://bitbucket.org/shulhi

EDUCATION

University of Wisconsin-Madison, Wisconsin USA
B.A. in Actuarial Science and Mathematics, August 2011

Honors
Malaysian Government Scholarship Recipient

WORK EXPERIENCE

Software Engineer*, Millennium Radius Sdn. Bhd.*   *October 2013 – Present*
Companies' Indirect Quotas Calculation for Malaysia Economic Planning Unit
- Developed system to calculate direct and indirect ownership of each shareholder for all companies registered in Malaysia.
- We used graph theory and matrix approach to calculate effective ownership from complex graph of all companies.
- Improved calculation run time from days to few hours. See my PyCon talk for more details.
- Reports generated are used by Ministry of Finance for policy making. Presented results to Minister at Prime Minister Office.
- Technologies: Python, OpenBLAS, NumPy, RabbitMQ, PostgreSQL, Flask, React (Javascript)

Centralized log management system for Telekom Malaysia
- Architected and developed system to enable user to search and query logs, and build time series to reveal relationship between logs.
- Developed and applied machine learning algorithms to predict system failure based on context derived from logs messages.
- Deployed to Hadoop cluster in Telekom Malaysia Emergency Response Services (MERS) 999 division.
- Technologies: Java, Python, NLTK, Scikit-Learn, Hadoop, Solr, Spark, Flume, Cloudera, C#/ASP.Net MVC

Botnet detection for Telekom Malaysia (Proof of concept project)
- Analyzed large amount of DNS pcap file using Hadoop.
- Research and develop techniques to detect DDoS and time series anomalies
- Technologies: Python, Cassandra, Scapy

Treasury Auditor, RHB Bank   *October 2011 – July 2013*
- Team member of a specialized team auditing all matters related to Group Treasury, from Treasury front office to settlement department inclusive of risk management and compliance.
- Developed system using VBA to automatically analyze audit issues and to automatically generate yearly audit plan for the whole division.

TALKS

PyCon Malaysia 2015, Who owns what? Graph theory application.
https://speakerdeck.com/shulhi/who-owns-what-graph-theory-application-at-pycon-my-2015

PERSONAL PROJECTS

Guardian (2013 D-Code Bootcamp's Hackathon - Top 16 team)
- Guardian is a chrome extension to monitor tendency of depression by monitoring website content browsed by user.
- It uses Naive Bayes classification algorithm to classify the content of each website in the background. If the result breached certain threshold, report is sent to parent/guardian/psychiatrist with all the details.
- Top 16 finalist out of 100 teams and selected to attend Global Entrepreneurship Summit conference in October 2013.

Talking Eye (2013 Global Startup Youth's Hackaton - Top 4 team)
- An Android app to crowd source vision for visually impaired. Photo snapped by visually impaired person are sent to micro-volunteers. Narrations by micro-volunteers are sent back to impaired users.
- Selected as top 4 out of 50+ teams and presented during Global Entrepreneurship Summit 2013.

PlaceBo, *https://bitbucket.org/shulhi/placebo (work in progress)*
- End-to-end solution for placing booking for sports centers.
- Host can ping group to invite players and booking is placed concurrently to sports center.
- Match making for team who wants to play but with inadequate team member.

Forex News, *http://www.windowsphone.com/s?appid=298aeda6-3f02-4892-a5c1-ee82aff6e5dc*
- A Windows Phone 8 app to provide weekly agenda on market moving news.
- It informs users on actual result of each data release accompanied with actual report.
- Other features include detailed information on each event, live tile notification, lock screen notification, and reminder.

Supahands, *http://www.supahands.com*
- A Ruby on Rails web application that features virtual assistants to help you get things done. I was part of VLT Labs' team responsible in developing Supahands.

Better Network, *https://betternetwork.codeplex.com*
- Better Network is a lightweight application to clean unused wireless profile and network list for Windows 8.
- Under Windows 8, there is no easy way to remove wireless profile and network list.

SKILLS

- Language: Python, JavaScript, C#, Java
- Framework: Flask, .Net/ASP.Net MVC, React, Electron, Hadoop MapReduce
- CVS: Git
- Knowledge in common design patterns in software development, linear algebra and statistics
- Languages I have worked in the past include Ruby (RoR), C++, PHP, VBA/Excel, ActionScript and MQL
- Trait: Eager, fast learner, tenacious
- Interest: Running, climbing, photography