

# Shulhi Sapli

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<b>Website</b>	http://shulhi.com		
<b>Github</b>	https://github.com/shulhi	<b>Bitbucket</b>	https://bitbucket.org/shulhi

## EDUCATION

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

### Honors

Malaysian Government Scholarship Recipient

## WORK EXPERIENCE

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**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

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**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

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**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/ms-my/store/app/forex-news/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://github.com/shulhi/BetterNetwork>

- 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

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- 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