

Laurence Putra Franslay

Hacker. Sysops. Developer.

Full version available at cv.geekosphere.net

Work History

BillPin Pte Ltd ([Link](#))

Engineer : May 2013 - ?

- Migrated the Billmonk database of size 50GB over to BillPin servers after acquisition of Billmonk
- Rewrote architecture of BillPin's backend to reduce load on users' devices
- BillPin previously had to recalculate the users entire history on every load
- Deployed a queue system to speed up computing the balances, with a backlog of over half a million transactions
- Migrated existing data to support new currencies feature
- Used hazard tables to allow for distributed calculations of user balances to handle surge in load in the first week
- Identified key metrics and built internal dashboard tools using d3.js to better visualise them
- Managed all servers using Salt Stack to streamline sysadmin/devops tasks
- Compiled custom build of MongoDB to enforce better security standards
- Optimised load times of Homie.co more than 20x using a variety of techniques, including indexing, and ordering of queries
- Wrote scrapers to crawl and analysis competitors' data
- Wrote automated bots to submit data to classifieds websites to get more exposure for the product

Newton Circus Pte Ltd ([Link](#))

Engineer (Intern): May 2012 - Aug 2012

- Wrote abstraction layers to convert SOAP API's provided by transport companies and the government to a RESTful API for participants of UPSingapore
- Abstraction layers also provided rate limiting to prevent overloading of the third party api's provided
- Created a Kickstarter clone app for local startup Ideasian
- Used PHP/Codeigniter + MongoDB to build the app, as the data was mainly flat in nature
- Provided hosting services for the startup after the project ended, with scheduled backups, as well as automatic failover using HAProxy and MongoDB

Chalkboard Pte Ltd ([Link](#))

Engineer (Contracted Consultant): Aug 2011 - March 2012

Engineer (Intern): May 2011 - Aug 2011

- Joined Chalkboard as a fellow in the StartupRootsSG programme
- Migrated Chalkboard from SVN to git
- Completed the Chalk Webwidget, with white label versions for large clients, and documented it on Github
- Created a Publishers platform for publishers using the Webwidget to view their statistics
- Scaled up the Webwidget at both database and code level to support high loads from various websites hosting the widget, supporting up to 20 requests per second at peak periods
- Created an in house iplocator solution to convert IP addresses to lat/lng points
- Coded mobile apps for Chalkboard, optimising it for the weaker phones

Side Projects

GeekcampSG ([Link](#))

Organiser: July 2011 - Present

- Created the website [Geekcamp.SG](#)
- Organised GeekcampSG, one of the largest Geek conferences in Singapore
- Primarily in charge of sponsorships and marketing
- Grew the community to 1,500 geeks in 2013, from 700 in 2012, with 500 of them being students

Instasyncer ([Link](#))

Creator: May 2012 - Present

- Helps users sync their Instagram photos to Dropbox instantly
- Stack used: PHP/Codeigniter and MongoDB
- High availability backend with automated daily database backups
- Wrote it primarily to solve a personal pain point

Education

National University of Singapore ([Link](#))

- Bachelor of Computing in Computer Science: **Aug 2009 - May 2013**
 - Focus in Distributed Systems and Security
 - Notable modules taken include CS5223 (Distributed Systems offered at the Masters level), and CS3216/CS3217 (Software Engineering on Evolving Platforms)
- NUSHackers ([Link](#)): **Aug 2010 - Sept 2012**
 - Coreteam member
 - Organised Hack Workshop Series, a series of workshops educate students about technologies
 - Organised Friday Hacks, a weekly meetup to for hackers to mingle
 - Organised Hack&Roll, a 24-hour hackathon, in NUS
 - Found sponsors for the events

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