

# Laurence Putra Franslay

## Hacker. Sysops. Engineer.

Full version available at [cv.geekosphere.net](http://cv.geekosphere.net)

### Work History

#### PayPal Pte Ltd ([Link](#))

##### Non-team specific work

- Core team of internal automation framework
- Maintains internal Gem proxy for PayPal
- Built and maintain bug dashboard to automate bug reporting and increase visibility, resulting in faster turnaround time for bugs

##### Developer Outreach - Team Lead : Jan 2015 - Current

- Worked on increasing PayPal's visibility in the local tech community
- Lead the team to host around 2 meetups per week throughout the year
- Reached out to over 3000 technologists through 50+ meetups in 2015

##### Consumer Engineering - Software Engineer : March 2015 - Current

- Worked on PayPal's iOS and Android applications, delivering features for both
- Facilitated and set up hardware infrastructure for live testing of products built by the team

##### Regional Solutions Engineering - Software Engineer : March 2014 - Feb 2015

- Delivered features on PayPal for LatAm
- Rolled out support for new credit cards in LatAm

#### BillPin Pte Ltd ([Link](#))

##### Engineer : May 2013 - Feb 2014

- 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
- 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
- Provided hosting services for the startup after the project ended, with scheduled backups, as well as automatic fallover 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**

### **Python User Group Singapore** ([Link](#))

**Secretary: Oct 2015 - Oct 2017**

**Committee Member: Oct 2013 - Oct 2015**

**PyConSG Subcommittee: Jan 2013 - Dec 2013**

- Primarily in charge of sponsorships

### **GeekcampSG** ([Link](#))

**Organiser: July 2011 - Nov 2014**

- 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 200 in 2011, 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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