# Jonathan Poltak 林旭明 Samosir

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## ━━━━ TECHNICAL SKILLS

- **Programming Languages**: C, Java (EE, SE), Lisp (Scheme, Clojure), Javascript (ES2015, JSX), Python, Lua, C#, Swift, MiniZinc (CP), Perl, Ruby, Shell (bash, zsh, sh), XSLT, Prolog, PL/SQL
- **Frameworks/Platforms**: Android, iOS, Node.js, Meteor, React, Express, Ionic, .NET, SDL, jQuery, MPI, VCS (git, svn, hg), Jekyll
- **Databases/Processing frameworks**: Postgres, MySQL, MongoDB, Oracle, JDBC, Hadoop (Pig, Hive), Spark, Storm, Samza

## ━━━━ WORK EXPERIENCE

**Jun. 2015 - Present**
**Lead Developer**, *YoungPilots.vn*, Hanoi, Vietnam.
- Web development shop based out of Hanoi, Vietnam
- Looking to expand into fully-fledged startup working on our own ideas
- Technologies worked with: **Postgres, NodeJS, ExpressJS, React, Meteor, Ionic, MongoDB**

**Jul. 2015 - Present**
**CTO, Lead Developer**, *Sportistics*, Taipei, Taiwan.
- Startup in Taipei, Taiwan, developing sports betting social network app
- Currently in development, nearing release
- Technologies worked with: **Meteor, Ionic, MongoDB, Python, Cordova, ES2015**

**Jul. 2014 - Jul. 2015**
**Teaching Associate**, *Monash University*, Melbourne, Australia.
- Taught second-year undergraduate level topics on operating systems and computer architecture
- Taught first year undergraduate introductory programming to software engineering and computer science students
- Marking of interim assignments and final exams also included in the role

## ━━━━ PERSONAL PROJECT INVOLVEMENT

- **poltak/brightsparqe-web** - Website for the Bright Sparqe charity based in Melbourne, Australia, live at brightsparqe.org
  - Working to alleviating the issue of homelessness in Australia
  - Lead backend designer and programmer

- **apache/incubator-samza** - LinkedIn's distributed stream processing framework, live at Apache incubator
  - Contributed new subsystem that allows streaming of file contents
  - Major documentation contributor

- **graysky2/hosts-update** - Updates /etc/hosts with the MVPS blocklist
  - Wrote Mac OS X port

- **caskroom/homebrew-cask** - A package manager for Mac applications distributed as binaries
  - Major contributor of new packages
  - Maintainer of several existing packages

## Research Experience

**Mar. 2015 - Jul. 2015**  **Research Assistant**, *Faculty of Information Technology, Monash University*, Melbourne, Australia.
- Looking at the developments in the space of NoSQL database technology.
- Working on the development of an experimental NoSQL database.
- Technologies worked with: Clojure, NodeJS, MongoDB

**Jul. 2014 - Jul. 2015**  **Honours Degree Thesis**, *Faculty of Information Technology, Monash University*, Melbourne, Australia.
- Working on the processing of real-time big data streams in the context of the Australian railway industry.
- Technologies worked with: Java, Clojure, Python, Samza, Spark Streaming, Storm, Hadoop YARN

**Jan. 2014 - Mar. 2014**  **Undergraduate Research Assistant**, *Qualcomm Institute, UCSD*, San Diego, California, USA.
- Worked on components of research project SenseHealth, a platform to enable personalised healthcare.
- Technologies worked with: Java, Scala, Samza, MPI, Hadoop YARN, Apache Kafka

## Education

**2015**  **Bachelor of Computer Science (First Class Hons), Systems Development**, *Monash University*, GPA: 3.5/4.

**2015**  **Contemporary Chinese II, Chinese Language (Mandarin)**, *National Taiwan Normal University* 國立臺灣師範大學, 92.6% (grade avg).

## Academic Achievements

- First class honours (highest award in undergraduate research)
- MURPA 2014 recipient to do research project at UCSD, USA on behalf of Monash University, Australia
- 95% overall mark on final year Computer Science Project
- Monash University Jubilee Honours Scholarship recipient for the Honours Degree of Bachelor of Computer Science 2014
- Huayu Enrichment Scholarship 2014 recipient to study Mandarin at National Taiwan Normal University, Taiwan
- Mandarin Training Center Scholarship 2014 recipient to study Mandarin at the Mandarin Training Center, National Taiwan Normal University

## Extra Curricular Awards

- Personally invited to participate in Cisco Live 2015 Melbourne hackathon for Cisco IoT technologies - team came fourth overall.
- Contestant in Codehire Cup Australia 2013 (Java competitor) - made it through all rounds to the finale in Sydney.