

Jonathan Poltak 森旭 Samosir

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QUALIFICATION SUMMARY

- Passion for learning new skills and discovering new things
- Hard worker, quick learner, and ability to assume responsibility

TECHNICAL SKILLS

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

PERSONAL PROJECT INVOLVEMENT

- **poltak/LockerDB** - An experimental NoSQL key-value store database
 - Lead project developer and researcher
- **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 - present **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
- Jul. 2014 - present **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 - **Undergraduate Research Assistant**, *Qualcomm Institute, UCSD*, San Diego, California, USA.
Mar. 2014
- Worked on components of research project *SenseHealth*, a platform to enable personalised health-care.
 - Technologies worked with: Java, Scala, Samza, MPI, Hadoop YARN, Apache Kafka

EDUCATION

- 2015 **Bachelor of Computer Science (Hons), Systems Development**, *Monash University*, GPA: 3.492/4.
- 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

- 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 - team came fourth overall.
- Contestant in Codehire Cup Australia 2013 (Java competitor) - made it through all rounds to the finale in Sydney.