

Jonathan Poltak 林旭明

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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 - **Lead Developer**, *YoungPilots.vn*, Hanoi, Vietnam.
Present
 - 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 - **CTO, Lead Developer**, *Sportistics*, Taipei, Taiwan.
Present
 - 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 - **Teaching Associate**, *Monash University*, Melbourne, Australia.
Jul. 2015
 - 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 - **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 - **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.
- 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

- 2014 **Bachelor of Computer Science, Systems Development**, *Monash University*, GPA: 3.492/4.
- 2015 **Honours Degree of Bachelor of Computer Science, Real-time Big Data Processing**, *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.