

Patrick Wong

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<https://github.com/pwong-mapr>

Summary - Build & Release Engineer with 8 years of experience with Java and JVM-language projects, as well as automation for builds, tests, packaging, and distribution of such projects.

Skills

- *Containerization*: Docker
- *Source Control*: SVN, Perforce, Mercurial, Git
- *JVM world build tools*: Ant, Maven, Gradle
- *Languages*: Java, Markdown, Groovy, SQL, Bash/Shell
- *OS Familiarity*: RedHat / CentOS, Ubuntu
- *Scheduling*: cron, Jenkins
- *Virtualization*: Packer, VirtualBox
- *Other build tools*: Make, rpmbuild

Experience

MapR Data Technologies - Santa Clara, CA - Build & Release Engineer, 2013 - present

- Code-driven and automated builds of Docker images. The Docker images were then used for automated builds of all other projects.
- Rewrote large amounts of build code from Make into Gradle.
- Migrated a complex code base and build automation base from being Mercurial-based to Git-based.
- Branch merges and rebases, for both Mercurial-based and Git-based projects.
- Automated complete Git repo syncing, including all branches and tags, between forks of projects hosted on github.com.
- Package creation & repository management for both RedHat RPMs and Ubuntu DEBs.
- Releases for 10+ projects per release cycle, with interrelated dependencies between these projects.
- Service management using both init.d and systemd, and scripting to use these in RPM and DEB formats.
- Build infrastructure management including RedHat, Ubuntu, Windows, and OSX nodes. Project requirements for build infrastructure include both Java and C++ components.
- Contributed to and released projects that have both open-source and closed-source versions, such as Apache Drill.
- Created and managed VMs that contain the MapR core product plus 5 additional projects, including special configuration that must be done for this VM use case.

RR Donnelley Nimblefish - *San Francisco, CA* - Software Build Engineer, 2012 - 2013

- Rewrote Ant-based build processes for Java and Flex projects to use Gradle and Artifactory.
- Developed a new development server process with a custom VirtualBox virtual machine in combination with Vagrant, shell, Puppet, and Ansible.
- Connected a wide variety of web applications with a complex ActiveDirectory LDAP server which itself referred to yet more LDAP servers.

Document Capture Technologies - *Santa Clara, CA* - Software Build & Release Engineer, 2012

- Automated builds of USB hardware drivers written in C++
- Certified USB hardware drivers for Windows Vista, Windows 7, and Windows 8, and aggressively optimized and improved the certification process

Nielsen Online - *Milpitas, CA* - Software Build & Release Engineer, 2008 - 2009

- Managed and wrote custom scripting for an automated build system based on cruisecontrol, including plugins
- Staged and tested multiple disparate projects which had been inherited from different companies
- Automated build and deployment processes for projects using TIBCO ActiveMatrix, which was not intended to be used in that way
- Developed a web application using Groovy and Grails for managing data for testing purposes
- Converted an Ant-based project into a Maven-based project
- Documented all of the above in such a way as to be understandable and helpful to others, then trained new hires in the understanding and maintenance of all of the above

Vorpalware - *Hayward, CA* - Software Engineer, 2008

- Refactored a Java Swing application for gathering, managing, and viewing user data

InfoCast - *Santa Clara, CA* - Software Engineer, 2008 - 2009

- Java web application development, including a protocol based on an RFC document with no mature implementations during that time
- Developed a custom backend using MySQL and Tomcat. Integrated an existing open-source application with the new backend.

Education

UC Irvine 2003 - 2007

BS, Information & Computer Science

Personal Projects

- Groovy Library published to Bintray: <https://bintray.com/ssfsx17/public/diceroller> and <https://github.com/ssfsx17/diceroller>