James Ravn | Software Engineer

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Technical skills

Languages: Java, Ruby, C, Bash

Databases: Mongo, Mysql, Oracle

Infrastructure: Puppet, Teamcity, Jenkins

Build: Maven, Ant, Gradle, Autotools, CMake

Version control: Git, Subversion

Editors: IntelliJ, Emacs, Vim

OS: Linux, OS X, Windows, FreeBSD

Process: Agile, XP, Scrum, TDD, BDD

Experience

Sky   **London, UK**
Software Developer (Contract)   *2014–Current*

○ Senior developer for the internet tv backend, serving Sky Go, Now TV, and wholesale providers. Key contributor to the scaling of our applications on AWS and Cassandra to serve 10,000 TPS. Led improvements to testing strategy for codebase, improving turnaround times.
Technologies: Java, Dropwizard, AWS, Cassandra, Soasta

○ Content metadata ingestion with 100% message reliability requirement. Contributed significant code and architectural improvements, assisting the team to reach its goals.
Technologies: Java, Spring, Mule, ActiveMQ, MySQL, Cucumber

○ Built testing framework and infrastructure for puppet and rpm changes. This was made part of the project's continuous integration, enabling quick feedback.
Technologies: Puppet, Vagrant, Jenkins, Ruby, RSpec

Camelot National Lottery   **London, UK**
Senior Software Engineer   *2013–2014*

○ Full stack feature development for next generation lottery platform. Worked primarily on subscriptions with direct debit, serving 1 million accounts. Considered the most complex part of the application.
Technologies: Java, Spring, Hibernate, Gradle, Grails, BACS

○ Heavily involved in devops. Advocated for and successfully implemented our branching and code review process. This resulted in >90% green builds from ~10%, and improved code quality and communication.
Technologies: Gitlab, Jenkins, Puppet

IMC Financial Markets   **Chicago, IL**
Senior Software Engineer   *2009–2013*

○ Senior developer on automated trading team. Highly ranked by management.

○ Designed and implemented the core valuation library, used across the company for pricing of securities. Enabled new strategies and enhanced existing ones with significant contribution to PnL.
Technologies: Java, ActiveMQ, Mongo, MySQL, Cucumber

- Replaced the ant-based build system with Maven, leading to an ~80% reduction in build times and significant code reduction. Implemented custom maven plugins.
  Technologies: Java, Ant
- Performance improvements to the feed component, increasing capacity from 2 million to over 30 million states per minute.
  Technologies: Java, VisualVM, Yourkit, Shark
- Developed jabber bot and accompanying pidgin plugin (for xmpp-uri) to support broker traders.
  Technologies: Java, Smack, C, XMPP
- Mentored junior developers, hosted book clubs (e.g. Hull, GrOOS), and brown bag lunches on various topics (e.g. mockito, fest-asserts).

Motorola   **Libertyville, IL**
Senior Software Engineer   *2006–2009*

- Consistently ranked in the top 10% of company employees.
- Designed novel software delivery estimation model that became the defacto estimation tool for the software organization due to its simplicity and usefulness.
  Technologies: Minitab, Excel
- Lead developer of software quality website used by software management, which led to significant improvements in delivery estimation and resource allocation.
  Technologies: ASP, Excel, Oracle, MySQL, MSSQL, Javascript
- Implemented defect triage web tool which improved turnaround time for bug fixes.
  Technologies: Ruby on Rails, Javascript, HTML, CSS

Education

University of California   **Los Angeles**
B.S. Computer Science and Engineering, 3.5 GPA   *2003–2005*