

# James Ravn | Software Engineer

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## Technical skills

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**Languages:** Java, Ruby, C, Bash

**Databases:** Cassandra, Mysql, Mongo

**Infrastructure:** Ansible, Puppet, Jenkins

**Build:** Gradle, Maven, Autotools, CMake

**Version control:** Git, Subversion

**Editors:** IntelliJ, Emacs, Vim

**OS:** Linux, FreeBSD, OS X, Windows

**Process:** Agile, XP, Scrum, TDD, BDD, Devops

## Experience

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### Sky

*Software Developer (Contract with Energized Work)*

**London, UK**

*2014–Current*

- Core contributor to internet tv backend, serving Sky Go, Now TV, and wholesale providers.
  - Scaling of Dropwizard applications on AWS and Cassandra to serve 10,000 TPS.
  - Led improvements to testing strategy for codebase.
  - Built non-disruptive deployment in Ansible, including custom modules, for zero downtime deploys to AWS.
- Core contributor to content metadata ingestion project with 100% message reliability requirement.
  - Wrote dao layer to support XA transactions across Mule and Mysql.
  - Solved ActiveMQ bugs with XA transactions that plagued the team for months.
  - Built testing framework and infrastructure for continuous integration of Puppet modules.

### Camelot National Lottery

*Senior Software Engineer*

**London, UK**

*2013–2014*

- Core contributor to the next generation lottery platform serving all of the UK.
  - Significant work on subscriptions with direct debit (BACS), serving 1 million accounts. Made it production ready for go-live and oversaw it's rollout.
  - Advocated for and successfully implemented our branching and code review process, resulting in >90% green builds from ~10%, and improved code quality and communication.

### IMC Financial Markets

*Senior Software Engineer*

**Chicago, IL**

*2009–2013*

- Senior developer on automated trading team. Top ranked by management and peers.
- 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. (Java, Mongo, ActiveMQ)
- Replaced the company wide ant-based build system with Maven, leading to an ~80% reduction in build times and significant code reduction.

- Performance improvements to the feed component, increasing capacity from 2 million to over 30 million states per minute.
- Developed jabber bot and accompanying pidgin plugin (for xmpp-uri) to support broker traders over chat.
- Mentored junior developers, hosted book clubs (e.g. Hull, GrOOS), and brown bag lunches on various topics (e.g. mockito, fest-asserts).

## **Motorola**

*Senior Software Engineer*

**Libertyville, IL**

*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. (Excel/VBA)
- Lead developer of software quality website used by software management, which led to significant improvements in delivery estimation and resource allocation. (ASP.NET)
- Implemented defect triage web tool which improved turnaround time for bug fixes. (Rails)

## **Education**

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**University of California**

*B.S. Computer Science and Engineering*

**Los Angeles**

*2003–2005*