# James Ravn | Software Engineer

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## Technical skills

**Languages**: Java, Golang, Ruby, C

**Databases**: Cassandra, Mysql, Mongo

**Platform**: Kubernetes, Docker, Ansible, Puppet

**Build**: Gradle, Maven, Autotools, Jenkins

**Version control**: Git, Subversion

**Editors**: IntelliJ, Emacs, Vim

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

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

## Experience

**Sky**                                                                                       **London, UK**

*Software Engineer (Consultant with Energized Work)*                                          *2014–Current*

o Co-founder of core engineering team for international commerce platform. On-going work.
  - Built platform from ground up on AWS and Kubernetes/Docker, with custom built Go, Gradle, and Jenkins components.
  - Serves 6 development teams. Significant involvement on the full stack from bare VM to backend applications, including performance testing and team process.
o Contributed to Internet TV backend, serving Sky Go, Now TV, and wholesale providers.
  - Scaled 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 python modules, for zero downtime deploys to AWS.
o 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**                                                                  **London, UK**

*Senior Software Engineer*                                                                    *2013–2014*

o 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, considered the most complex part of the codebase. 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**                                                 **Chicago, IL**
*Senior Software Engineer*                                                   *2009–2013*

- Senior developer on automated trading team. Top ranked by management and peers.
- Designed and implemented the core valuation library and parameter server, used across the firm for pricing of securities.
  - Enabled new strategies and enhanced existing ones with significant contribution to PnL.
  - Implemented in core Java with minimal dependencies and high mechanical sympathy, utilizing Java concurrency primitives.
  - Novel generic pricing framework built using Java annotated classes and graph analysis to build a pricing DAG. Cucumber specs for building acceptance criteria of specific pricing combinations.
  - High performance server component for persisting and propagating parameters of the pricing models, built with Java, ActiveMQ, and Mysql/Mongo.
- 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 primary 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, and brown bag lunches on various topics.

**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 mobile 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

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