

# Matthew M. Stratton

Software Engineer

## contact

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## tech

ActiveMQ, Ansible, Docker,  
Groovy, Java, JPA,  
JavaScript, Mutual TLS,  
Openshift, Puppet, Python,  
Relational Databases  
(Mariadb, Oracle,  
PostgreSQL), RESTful  
Services, Splunk, Spring,  
Spring Boot

## professional interests

system analysis/design, ops  
automation (CI/CD),  
containerization, scalability,  
resiliency

## professional dis-interests

GUI/web UI dev,  
system/network/database  
administration, leetcode  
interviews

## education

2008-2012

**Bachelor of Science** Computer Science

Clemson University

Focused on software engineering: mobile apps, database design, software engineering, web development

## current role

Jan 2018-Present

**Red Hat, Inc**

Raleigh, NC

*Senior Software Application Engineer*

Java engineer on the Enterprise Services Platform team. Member of a team of Sr engineers developing and maintaining crosscutting services (messaging, REST apis) and providing standardized libraries, tools and patterns to enable other teams to work more efficiently in the Red Hat ecosystem.

**Technologies:** Spring Boot, Openshift, Docker, Mutual TLS, ActiveMQ, Swagger, Splunk, and most tech from previous role

### Responsibilities:

- Provide training and support for new team members.
- Development, maintenance and operational support of various applications (message broker service, REST services).
- Provide subject matter expertise on messaging (ActiveMQ brokers, JMS), Red Hat's business domain model and enterprise services ecosystem:
  - Lead architecture and feature development efforts.
  - Providing best practice consulting and documentation to clients.
  - Training and support for clients and team members.
- develop documentation, standard libraries and tooling to enable development team to quickly (and correctly) integrate into Red Hat's ecosystem:
  - Logging standards (server config and Splunk integration).
  - Application health checks - internal application health and external dependency health.
  - Monitoring, alerting, automatic recovery techniques.
  - TLS certificate based authentication and RBAC authorization.
  - CI/CD tooling to define, build and deploy services to Openshift.

### Major Projects:

- Modernization of legacy service architecture from VMs/Java 6/JBoss to Containers (Openshift)/Java 8/Spring Boot.
- Lead a complex architectural upgrade to a message broker service (ActiveMQ) to implement horizontal scaling needed to meet quickly growing demand.
- Lead a major piece of a project to split a monolithic database (Oracle) shared by many teams/apps into isolated micro-services with their own databases (Postgres). Designed/implemented changes for a specific, business-critical application while acting as tech lead for several teams who needed to solve similar problems for their own applications.
- Took the initiative to create support tooling (Python, Jolokia) to solve operational challenges that were otherwise either impossible, impractical or error prone.
- Adapted a niche, application specific, security model to work with our standard TLS based RBAC library. This simplified security configuration which was becoming an operational scalability concern.

## personal interests

my dog, concerts, beer,  
cooking, reading, video  
games, board games,  
coffee, D&D

## favorite band (currently)

We Were Promised Jetpacks

## quote

"Baley distrusted  
overstatement and had no  
liking for the armchair  
deducer who discovered  
certainty rather than  
probability in the workings of  
logic." - Isaac Asimov The  
Naked Sun

## previous roles

Aug 2014-Dec 2017

**Red Hat, Inc**

Raleigh, NC

*Software Application Engineer*

Java engineer on Red Hat IT's ESB team developing and maintaining a traditional Enterprise Service Bus and a company wide messaging platform handling around 50 million messages per month from well over 100 applications.

**Technologies:** Java, Python, Groovy, Puppet, Ansible, Spring, Oracle, MongoDB, MariaDB, REST, collectd/graphite

### Responsibilities:

- Development, maintenance and operational support of various applications (message broker service, REST services).
- Work with other teams to integrate systems using the Enterprise Service Bus.

### Major Projects:

- Upgraded ESB technologies from JBoss 4 messaging to JBoss EAP 6 utilizing Apache Camel and JBoss AMQ 6.2.
- Lead implementation of a general messaging platform using for quick, secure, decoupled messaging for any applications within Red Hat.
- Implemented a monitoring solution to collect metrics and alert on the health of over 100 hosts.

Jan 2013-Aug 2014

**Premier, Inc**

Charlotte, NC

*Java Developer*

Back end Java J2EE server RESTful application dev using Spring, Hibernate, Maven and other industry standard enterprise tools.

**Technologies:** Java, Javascript, Spring, Hibernate, JDBC, Maven, Liquibase, JBoss EAP, Git, Postgresql, Oracle

## internships

Aug 2012-Dec 2012

**Clemson University Social Media Listening Center**

Clemson, SC

*Programming Intern*

Worked with professors and students to create a tool for downloading large datasets from Salesforce.com

**Technologies:** C#, Visual Studio 2010, Python, Salesforce.com REST api

May 2012-Aug 2012

**Condrey Corporation**

Greenville, SC

*Software Development Intern*

Worked with business to create proof of concept desktop based data visualization dashboard and mobile admin app

**Technologies:** C#, Visual Studio 2010, ActionScript, Adobe Flex Framework

## honors & certifications

**360 Project Team Award**

2015

**Oracle Certified Associate, Java SE 7 Programmer (1Z0-803)**

2014

**Premier Team Excellence Award**

2014

**South Carolina Life/Enhanced Life Scholarship**

2008-2012

**Eagle Scout**

2007