

# Annette Spyker Mechelke

<http://annette.mechelke.us/>

## EXPERIENCE

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### Fetch Rewards

*Senior Software Engineer - Team Lead*

Madison, WI

*Dec 2014 - Present*

**Major System Refactors:** Refactored numerous business critical systems over 4 year tenure. Points (in app currency) accounting system, Shopping Lists, Pricing, and Offers/Coupons. Each time replaced existing, fragile code based with a focus on increasing maintainability and extensibility, while still completing the refactor in a timely fashion. Led project to replaced item data ingest process with a Spring Batch based solution.

**Application Support:** Participated in support rotation. Implemented numerous improvements to increase supportability of our applications. Including set up a Logstash/ElasticSearch/Kibana (ELK) stack to allow ingest of remote logs via SQS messages. Extended usage by using Lambda function to send logs from AWS Cloudwatch Logs to our existing ElasticSearch instance. Utilized AWS CloudWatch features to ensure team was alerted when issue arose in production.

**Process & Team Development:** Established and facilitated weekly technical seminar for development team. Identified need for mentor program, mentored two junior developers. Played key role is transitioning from sprints to kanban workflow. Established small improvement prioritization process.

### Shophop, an Amazon subsidiary

*Software Development Engineer*

Madison, WI

*July 2012 - Nov 2014*

**Java Web Services:** Part of a team that developed and supported numerous Java web application and RESTful web services that serve data to website. Implemented numerous small improvements, interacting with business users to ensure satisfactory results.

**Apache Solr:** Designed and built an internal search service backed by Apache Solr. Became subject matter expert on Solr for team. Expanded existing website search functionality to allow faceted navigation, and worked across teams to coordinate its development.

**Scrum Master:** Served as Scrum Master for team of 8 people, helped establish agile development practices, created documentation to facilitate rotation of Scrum Master position.

### Novashield Inc.

*Application Developer, Lead for Malware Lab*

Madison, WI

*Jan 2010 - June 2012*

**VM Infrastructure Management:** Managed 4 VMWare ESXi servers, hosting over 50 virtual machines used for testing. Used VM networks, linux based firewalls, and a Cisco firewall to ensure a safe network for executing malware.

**MySQL Database:** Maintained a large MySQL database, tracking over 8 million unique malware samples. Gathered and reported testing data.

**Java Test Framework:** Maintained and improved extensive in-house testing software, written in Java.

**Various Task Automation:** Created automation scripts in a variety of languages to facilitate aspects of testing: Windows batch, bash, and Python.

## OUTSIDE EXPERIENCE

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**Codecinella, Co-organizer:** I plan and coordinate events from technical talks to hands on workshops. I have also presented talks on: Git, unit testing, and Conway's Game Of Life for a workshop.(Slides for both available on my website.)

**Girls On The Run of South Central Wisconsin, Head Coach:** As lead coach for a site I coordinate with coaches, parents and the school to ensure out site runs successfully, in addition to facilitating the sessions with a team of coaches.

## SKILLS

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**Languages & Frameworks:** Java, Spring, SpringBatch, Python, SQL, Javascript, Ansible

**Technologies & Tools:** Git, MongoDB, MySQL, AWS (Lambda, SQS, SNS, ElasticBeanstalk), ElasticSearch, Apache Solr

## EDUCATION

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### University of Wisconsin

*Master of Arts, Mathematics; Certificate in Computer Science*

Madison, WI

*2008*

### Arizona State University, Barrett Honors College

*Bachelor of Science, Mathematics; Summa cum laude GPA of 4.0*

Tempe, AZ

*2006*