jennifer**page**

software engineer

contact

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programming languages

Scala, Elixir, Ruby, Java, JavaScript, C, & C++

frameworks

Scalaz, Cats, Shapeless, Ruby on Rails, & Opscode Chef

interests

Data Processing, Distributed Systems, Functional Reactive Programming, & Type Level Programming

experience

Lola   Boston, Massachusetts
Software Architect   Mar 2017–Present
Developed best practices, engineering processes, team lead for many projects
Accomplishments:

- Gathered requirements for and led design and implementation of trips product
- Gathered requirements for and led design and implementation of back office processing system
- Led two engineers to improve the quality and accuracy of our booking data (as reflected in airline PNRs) as well as reduce the burden on our custom support team. We finished our project on time, delivering several features ahead of schedule. These included the ability to completly import an airline PNR into our system and the ability to reflect changes on any part of a booking
- Closely mentored two junior engineers and provided suport to many others, across teams
- Standardized and socialized best practices for GraphQL API design and implementation, including the usage of delayed execution to improve performance
- Centralized and automated deployment for most backend services and coordinated with devops as their team grew to hand over responsibility
- Wrote a tool which performed black box performance testing on a third party API. Analyzed the resulting data and made recommendations which were used to improve our strategy for maximizing flight search performance.
- Centralized and automated deployment for most backend services and coordinated with devops as their team grew to hand over responsibility.
- Centralized and automated database migrations across all databases, eliminating problems previously caused by human error and minimizing knowledge required to perform migrations correctly.
- Consulted with product on and advocated for future performance and design improvements.
- Quickly investigated and fixed backend bugs encountered by the support team, eventually becoming the de facto "goto" person for bugs and receiving recognition.
- Advocated for, scheduled and coordinated team building lunches to improve cohesion

Localytics   Boston, Massachusetts
Senior Software Engineer   Mar 2015–Mar 2017
Full stack engineer focusing primarily on backend to develop and maintain a realtime data ingestion system.
Accomplishments:
- Designed new datapoint validation and enrichment pipeline with the goal of reducing faults and increasing maintainability.
- Led architectural design and implementation of improvements to profiles product.
- Automated post-fault recovery of several services, significantly reducing late-night pages and engineering burden.
- Engaged in architectural discussions for other systems.
- Led and helped teach guild for Functional Reactive Programming and Type Level Programming.
- As crew lead, led two other engineers in shipping Re-marketing v1.
- Mentored other developers in Scala and Ruby on Rails.
- Collaborated with and assisted devops team with design and architecture of permissions escalation/approval system which helped reduce workload on devops and empowered engineers to take devops work into their own hands.

PayPal   Boston, Massachusetts
Software Engineer II   June 2013–Mar 2015
Full stack engineer on a team which provides a Ruby on Rails based UI and API for managing offers and campaigns for PayPal Media Network, Bill Me Later and the PayPal Deals website.
Accomplishments:
- Rewrote part of our application to increase reliability of synchronization with external services.
- Addressed security issues within our application and introduced the use of brakeman, a static code analysis tool, to our team's definition of done to help find potential issues before code review.
- Mentored new team members and coops using TDD and pair programming.
- Collaborated with stakeholders to ensure that our team took on features with the highest business value.
- Took ownership of a project to move our team's application to an OpsCode Chef based infrastructure pipeline. Organized milestones and a timeline which broke down the project into small pieces to allow the team to work concurrently. Aided our sister team in moving their application to the same pipeline through training and helping plan the move.
- Maintained a >99% uptime for our application and increased test coverage to >95% along with my team.
- Set up and configured a Jenkins server for continuous integration, security audits, deployments and creating releases.
- Presented a tech talk about Rabbit MQ and topic exchanges to help other teams understand how to bind their queues to our exchange to receive messages.
- Served as the Vice Chair of the Boston chapter of eBay Women in Technology (eWIT)

PayPal   Boston, Massachusetts
Summer Intern   2012
Accomplishments:
- Wrote a Sinatra based Ruby application for visualizing ops data for the systems team.
- Automated a report generation process that previously required a day to do manually.

open source contributions

jerkson   Scala
Rewrote and re-added test suite to fork of Codahale's jerkson library, bumped version of jackson dependency, incorporated various bug fixes from disparate forks.

AWScala Scala

Added support for specifying credentials via `ClientConfiguration`.

ensime-emacs Lisp

Various contributions to improve the ENSIME (Enhanced Scala and java Interaction Mode for text Editors) integration for Emacs.

capistrano_scm_nexus Ruby Gem

Published a gem which allows Capistrano to deploy a release by downloading an artifact from Sonatype Nexus instead of using SCM.

newrelic_rpm Ruby Gem

Added Capistrano 3 support for deployment notification.

shoulda-matchers Ruby Gem

Fixed a bug in the `validates_numericality_of` matcher and added a `validates_absence_of` matcher.

education

May 2013 **Bachelor** of Computer Science Worcester Polytechnic Institute