Joshua Tanner
Software Engineer

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Experience

Software Engineer, New Product Development
November 2016 - Present

eBay

- ▶ Developed from scratch, wrote tests for, and then took sole ownership of the Scala distributed scheduling service that powers eBay ShopBot's proactive messaging
- ▶ Implemented a bootstrapping NLP process to extract informative noun/adjective pairs from reviews, using Python and Spacy (based on "RevMiner" paper)
- ▶ Developed a Ruby on Rails web service that allowed non-technical users to customize and schedule proactive messages from ShopBot to users

Software Engineer, Global Shipping Program
September 2015 - November 2016

eBay

- ▶ Maintained and developed new features in Java/Spring services at scale (several million requests per hour)
- ▶ Produced tests for both new features and old untested features using JUnit and Mockito
- ▶ Drove an effort to automate excessive manual operations work, saving the team 10s of hours of work per week
- ▶ Rearchitected the pipeline used to import shipping charge data from shipping partners, increasing the accuracy of shipping prices on eBay's search results page by up to 40%

Intern, Global Data Infrastructure
June 2013 - September 2014

eBay

- ▶ Took ownership of and greatly expanded the functionality of a Ruby on Rails application serving eBay's data science teams, automating common support requests
- ▶ Wrote or improved Ruby scripts to help with common ops tasks
- ▶ Performed troubleshooting and ops work in a Linux environment

Skills

▶ Programming Languages

| Scala | Python | Java |
| Ruby | Javascript | C++ |

▶ Frameworks

| Play2 (Scala) | Ruby on Rails |
| Spacy | Falcon |

▶ Misc.

Git LaTeX

Projects

- ▶ Parasite
  A mod for StarCraft 2, which at peak averaged 2 million plays per week. Written in a combination of a native GUI language and Galaxy, a C-like language. I was responsible for the architecture, design, and vast majority of the code written, eventually onboarding another developer and two community managers.
- ▶ Pytext
  A desktop application written in Python which wraps communication with an email server and use of email to SMS gateways to allow users to participate in SMS conversations without the need for a phone number.

Awards

- ▶ Golden Ticket to present at eBay Innovation Expo
  2016-06-24

  eBay Hack Week

  Recipient of one of the two Golden Tickets for the Seattle office, our team developed JavaScript which called an accompanying Node.js service to convert n-grams on web pages into eBay affiliate links. My work included developing the heuristic to select n-grams based on a combination of relevance to page content and item presence in eBay inventory, and work on the backend Node.js service.
- ▶ Best eBay API Integration
  2013-05-26

  2013 CodeDay Seattle

  Built the backend for a Python/Flask web application which signed into eBay and purchased random items from eBay on behalf of the user.

Languages

Education