Matthew Robert Walters

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Skiing and Software

SKILLS

Languages Ruby[3], Javascript[3], Java[3], Bash[3], Python[2], Scala[2], Lua[1], C/C++[1], LATEX[1]	Basic - 1
Tools Rails[3], Git[3], Rspec[3], Capybara[3], Nginx[2], HAProxy[2], Ansible[2], Jenkins[2], React[2], Docker[2]	Intermediate - 2
Data Store MySql[3], Postgres[3], Redis[3], Elasticsearch[3], MongoDB[2]	Advanced - 3

WORK HISTORY

Shopkeepery | Founder | Mar 2016 - Present
> *Starting as a side project, Shopkeepery is a small business I've built to help artists sell art. Shopkeepery has been a tremendous experience allowing me to refine and temper skills as an entrepreneur, product designer, marketer, and software engineer.*

- Developed simple and scalable backend architecture with Ansible, Nginx, and HAProxy on AWS.
- Developed simple UI for artists to design products quickly and easily.
- Supports scalable uploading of very high-resolution image files.
- Deployed by a continuous integration pipeline with RSpec, Ansible, and CircleCI
- Built custom domain support for shops with SSL certs served dynamically with Nginx, Lua, Postgres.
- Created integration with Facebook Marketing API to export collections of products as Facebook ads.
- Created robust image manipulation pipeline with Sidekiq and Imagemagick.

Swiftype | Software Engineer | May 2014 - Mar 2016
> *Swiftype delivers search as a service for everyone from small business to large enterprise corporations.*

- Maintained API serving 3 billion requests per month with average response times below 200ms.
- Worked with TechOps lead to migrate 800GB MongoDB instance to sharded MySql solution.
- Integrated our sales and marketing stack including SalesForce, Pardot, GA, Mixpanel, Olark, and Slack.
- Maintained and extended a proprietary multi-tenant highly scalable web crawler built with JRuby.
- Worked extensively with Elasticsearch to optimize search results across thousands of websites.
- Developed and supported multiple 3rd party javascript libraries running in millions of browsers.
- Interviewed over 150 applicants for engineering positions and optimized recruitment pipeline.

Couchsurfing | Analytics Engineer | Oct 2012 - Oct 2013
> *Couchsurfing is a social network allowing users to find accomodations, activities, and companions while traveling.*

- Responsible for designing and implementing analytics infrastructure for site serving 7.3 million users.
- Conducted cohort analysis and A/B testing to measure performance of all new features.
- Supported product team in feature design with bespoke data analysis and visualization.

SIDE PROJECTS AND EXTRA CURRICULAR ACTIVITIES

Software Mentorship | Passion
> *I am very passionate about teaching.*

- Developed simple lesson plans for beginning bash, python, and ruby students.
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Nantucket | Limerick Generation Framework | GitHub Project: github.com/mattwalters/nantucket
> *A Python framework for implementing limerick generation strategies. The framework lazily creates and memoizes computationally expensive lexical resources.*

- Provides useful lexical resources including a rhyming dictionary and an n-gram graph generator.
- Implemented a limerick generation strategy that uses Markov chains via n-gram graph traversal.

EDUCATION

University of California, Berkeley | 2007 - 2012

- Bachelor of Science, Environmental Economics and Policy
- Bachelor of Arts, Anthropology

Selected Coursework

Structure and Interpretation of Computer Programs • Data Structures and Object Oriented Programming
Machine Structures • Algorithms • Modeling Biological Resources • Business Organization and Contract Law
Economics of Innovation and Intellectual Property • Language and the Brain