

Matthew Robert Walters

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Entrepreneur. Traveler. Software Engineer. Snowboarder. Optimist.

SKILLS

Languages Ruby³, Javascript³, Java³, Bash³, Python², Scala², Lua¹, C/C++¹, L^AT_EX¹ Basic - 1
Tools Rails³, Git³, Rspec³, Capybara³, Nginx², HAProxy², Ansible², Jenkins², React², Docker² Intermediate - 2
Data Stores MySQL³, Postgres³, Redis³, Elasticsearch³, MongoDB² 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. An experience allowing me to refine and temper skills as an entrepreneur, product designer, marketer, and software engineer.

- Architected simple and scalable backend 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.
- Designed robust image manipulation pipeline with Sidekiq and Imagemagick.

Swifttype | Software Engineer | May 2014 - Mar 2016

Swifttype 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 a sharded MySQL solution.
- Integrated our sales and marketing stack including Salesforce, Pardot, GA, Mixpanel, Olark, and Slack.
- Extended a proprietary multi-tenant highly scalable web crawler built with JRuby.
- Optimized Elasticsearch extensively for search results across thousands of websites.
- 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 accommodations and activities 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.

ONGOING SIDE PROJECTS AND EXTRA CURRICULAR ACTIVITIES

Software Mentorship | Pedagogy

My mentors have changed my life, and I believe mentorship is critical to the health of our community.

- Regularly spend a few hours a week in remote pair programming sessions teaching friends and family for free.
- Developed lesson plans for beginning bash, python, ruby, data science, and game development.

CrowdSketch | Mobile Game

A modern iOS take on an old pen and paper game

- Interacts with REST API built in Rails to support multiplayer

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