

Michael Steger

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OBJECTIVE	To develop software engineering skills among high quality engineers
EXPERIENCE	<p>Goodguide, San Francisco Software Development Engineer <i>March 2014 –</i></p> <ul style="list-style-type: none">• Wrote large swaths of the new GoodGuide website, and most of the new API code that supports it• Solved numerous critical production bugs: missing SQL indices, broken code, etc.• Rearchitected/rewrote the scoring system currently in use for scaling/concurrency correctness purposes <p>Amazon AWS, Seattle Software Development Engineer <i>July 2012 – Feburary 2014</i></p> <ul style="list-style-type: none">• Flow Framework<ul style="list-style-type: none">– Created the aws-flow framework for Ruby, an ease of use library for Amazon SWF– Implements continuation-passing style programming while allowing users to write in normal Ruby– Allows deterministic programs to be easily scaled/distributed and progress to be checkpointed– Managed contributions from several junior coworkers to meet release deadline– Currently over 300,000 downloads on rubygems– Maintained and modified Java aws-flow package, releasing several critical bug fixes• Reduced operational pain by automating repetitive and error prone tasks• Developed a system of operational review, to collate undocumented team knowledge about on-call <p>Twilio, San Francisco Core Engineer Intern <i>May 2011 – August 2011</i></p> <ul style="list-style-type: none">• Built new AMIs and vastly revamped the build process for AMIs• Set up Hadoop with Flume, Pig, and Zookeeper for Log Aggregation• Automated repetitive tasks such as scripting the local build enviornment for new engineers <p>EADOC LLC, Oakland Computer Engineer Intern <i>June 2010 – September 2010</i></p> <ul style="list-style-type: none">• Wrote shell scripts to automate deployment of new machines• Wrote a Bash interface for the MySQL replication service Tungsten <p>Computer Science Undergraduate Assosiation, Berkeley Vice President, President <i>December 2009 – January 2011</i></p> <ul style="list-style-type: none">• Provided Usenet-style newgroups for Computer Science classes on campus• Set up Nagios monitoring to ensure reliability
SKILLS	<ul style="list-style-type: none">• Languages: Ruby, Clojure, Emacs-Lisp, Shell Script, MySQL/PostGres, Python, Java, C, Javascript• Operating Systems: OS X, Debian/Ubuntu/CentOS/Arch Linux, FreeBSD, OpenSolaris• Source Control: Git, Mercurial, Subversion, Perforce• Editors/IDEs: Emacs, Vim, Eclipse, Xcode
PROJECTS	<p>Z - Shell Bookmarking (Ruby)</p> <ul style="list-style-type: none">• Provides shell bookmarking to allow easily changing directories• Uses shell autocompletion to further reduce hassle <p>Analyticsdotel - Emacs Analytics of keystroke/function use (Emacs-Lisp, Ruby)</p> <ul style="list-style-type: none">• Records keystrokes/functions in Emacs, intended to find underutilized key chords• Provides some treemaps of keystroke/function frequency using the rubyvis gem <p>Watch-Buffer - Run Commands on save in Emacs, instantaneously (Emacs-Lisp)</p> <ul style="list-style-type: none">• Made a system to run arbitrary commands on file save• Written in emacs after I tried to replicate incron in OSX(macwatch), which was too slow• Available on marmalade and melpa(popular Emacs repositories) <p>Steggybot - IRC Bot (Ruby)</p> <ul style="list-style-type: none">• Wrote plugins for an IRC bot, most notably a pokedex and a voting system <p>Emacs Configuration (Emacs-Lisp)</p> <ul style="list-style-type: none">• Actively developed for my own use <p>Automagic Karaoke (Python, Mathematica, Bash Scripts) <i>Yahoo 2010 Hack Day, First Place</i></p> <ul style="list-style-type: none">• Wrote a program to generate a video with lyrics in the proper location based solely on the song name <p>Python Compiler (C++, Horn(Bison and Flex derivative))</p> <ul style="list-style-type: none">• Wrote a Python lexer, parser, and compiler which compiled standard Python files to ia32 instructions
EDUCATION	<p>University of California, Berkeley BA, Computer Science <i>August 2008 – May 2012</i></p>