

Michael Steger

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EXPERIENCE	<div>Steger Technical Solutions, Oakland Principal <i>December 2017 –</i><ul style="list-style-type: none">Developed Load Testing tool for DigitalOcean, enabling maximization of sale of resources. Discovered optimizations causing 10x increase in number of requests servicable without any increase in costDid large ELT migration for Homerise, doing some large and complex transformations</div> <div>DigitalOcean, Oakland Staff Engineer <i>December 2015 – September 2024</i><ul style="list-style-type: none">Developed the object storage service ‘Spaces’, eventually becoming the principal engineer for everything in front of writing to disk. Service grew from 0 to >10M revenue/year during my time<ul style="list-style-type: none">Was in charge of every aspect of service, from billing to metrics, and was at one point the only engineer with more than three month experience on the product on the teamLead a team of 6 developers, coordinating their technical efforts for multiple Spaces projectsDeveloped local development tooling, first in docker-compose and later in devspace, replicating production-like env locally, massively speeding up development time/bugfixingAs part of ‘Spaces’, developed the CDN fronting interface. Lead migration during a vendor switch, managing a full rewrite while keeping uptime and not losing any data all within a two month periodTransitioned Spaces from regional databases to global source of truth with no data/availability lossDesigned the granular permission featureset for Spaces in close coordination with other teamsLead and wrote most of the front-facing code for the block storage service, ‘Volumes’Wrote and lead the front-end sides of Volume Snapshots, increasing adoption & revenue for volumesAs a staff engineer, lead internal initiatives, such as championing Temporal for distributed transactionsActive mentorship of junior developers, one of the founding members of the mentorship programImproved speed/timing of various systems by eliminating n+1s, rewriting critical sections, etcPioneered splitting out legacy system into microservices, allowing better reliability and uptimeWrote the entirety of the backup and restore functionality for MongoDB DBaaS service from scratch.Lead the backend rewrite of DO’s DNS, and coordinated introducing CAA records for DO</div> <div>Goodguide, San Francisco Senior Software Development Engineer <i>March 2014 – July 2015</i><ul style="list-style-type: none">Wrote large swaths of the GoodGuide website, and most of the new API code that supported itSolved numerous critical production bugs: missing SQL indices, broken code, etc.Rearchitected/rewrote the scoring system to fix scaling, concurrency, and correctness issuesSaved approximately 20k/month on AWS bills through some simple optimizations</div> <div>Amazon AWS, Seattle Software Development Engineer <i>July 2012 – Feburary 2014</i><ul style="list-style-type: none">Flow Framework<ul style="list-style-type: none">Created the aws-ruby-flow, ruby framework for Amazon SWF. >750k downloadsManaged contributions from several junior coworkers to meet release deadlineMaintained and modified Java aws-flow package, releasing several critical bug fixesDeveloped a system of operational review, to collate undocumented team knowledge about on-call</div> <div>Twilio, San Francisco Core Engineer Intern <i>May 2011 – August 2011</i><ul style="list-style-type: none">Built new AMIs and vastly revamped the build process for AMIsSet up Hadoop with Flume, Pig, and Zookeeper for Log AggregationAutomated repetitive tasks such as scripting the local build enviornment for new engineers</div> <div>EADOC LLC, Oakland Computer Engineer Intern <i>June 2010 – September 2010</i><ul style="list-style-type: none">Wrote/used shell scripts to automate deployment of new machines</div>
SKILLS	<ul style="list-style-type: none">Languages: Golang, Ruby, Rust, Bash, MySQL/PostGRES, JS, Python, Java, COperating Systems: OSX, Debian/Ubuntu/CentOS/Arch Linux/Guix &c, FreeBSDTechnologies: Docker, Concourse, Git/Mercurial, Kubernetes(k8s), Ceph,
PROJECTS	Watch-Buffer - Run Commands on save in Emacs, instantaneously (Emacs-Lisp) <ul style="list-style-type: none">System to run arbitrary commands on file save. Written in elisp after using incron in OSX(macwatch) Emacs Configuration (Emacs-Lisp) <ul style="list-style-type: none">Actively developed for my own use
EDUCATION	University of California, Berkeley BA, Computer Science <i>August 2008 – May 2012</i>