

# MATTHEW CHAVEZ

SR. SOFTWARE ENGINEER • DEV OPS

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## SUMMARY

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Software engineer who started out doing full stack web development in Ruby. Since my start I have taken on iOS apps, manage full infrastructure with dev ops tools and branched out into other languages like go and python. In addition, I publish and maintain a large variety of open source projects on Github. I am comfortable managing projects and am able to see them through with a focus on testing, metrics profiling, maintainability and extensibility. Working in a small team atmosphere where collaboration, transparency and choosing the right tool for the job is what I value in an engineering role.

## SKILLS

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- **Cloud hosting:** AWS, Digital Ocean, Others
- **Configuration management:** Ansible, Packer, Terraform, Consul Template, Hubot
- **Cluster management:** Consul
- **Metrics:** InfluxDB, Statsd, collectd
- **Monitoring:** NewRelic, Nagios, Grafana
- **Alerts:** Pager Duty, CloudWatch
- **Logging:** Logstash, Kibana, Elasticsearch
- **Databases:** PostgreSQL, Redis, MySQL, MongoDB, Riak, DynamoDB, RDS
- **Cache:** Memcached, Redis
- **CDN:** CloudFront, Cloudflare
- **Messaging:** RabbitMQ
- **Workers:** Celery
- **Load Balancing:** ELB, HAProxy, Nginx
- **Container Management:** Docker
- **Virtualization:** Vagrant, VBox, VMWare
- **Web stack:** Rails, Flask, Django, Golang, Node.js, React.js
- **Other languages used in stack:** C, Erlang

## WORK EXPERIENCE

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10/2015 – 3/2016

Bugsnag

Infrastructure/Dev Ops Lead

Joined to lead a dev ops team to instill automated infrastructure as code and documentation and to modernize current infrastructure with containerization and manage enterprise on-premise installation of Bugsnag tools. Complete re-write of Chef roles and set up Chef Server to manage servers and deploys. Automated infrastructure as code with Terraform to manage AWS entities. Containerized apps and services to modernize stack and for enterprise build stability and testing in containers in CI. Managed TB of data in Mongo and Elasticsearch clusters. Set up auto-scaling of Elasticsearch running in a 3 node setup of master, client, data. Managed deployment and server architecture of Java Spring services with HAProxy and auto-scaling provisioned by Chef for ephemeral load balanced services.

### Key Projects:

- Containerized services and main apps for CI and enterprise builds.
- Introduced large scale instrumentation of apps with grafana and InfluxDB and statsite.
- Managed and set up large Elasticsearch cluster in redundant and auto-scaled architecture in AWS.
- Managed large MongoDB cluster of replica sets.
- Complete re-write of Chef and implemented Chef Server for provisioning auto-scaled machines.

9/2014 – 10/2015

Guidebook

Sr. Software Engineer

Completed a full re-organization of company infrastructure for a v3 rewrite of the Guidebook site. Introduced and implemented new technologies to help drive the management and self-documenting of the new infrastructure. All services and infrastructure were designed with high availability in mind using HAProxy, Nginx, and ELB for load balancing. Auto-scaling groups are used to dynamically bring up nodes for increased throughput. Consul was used to manage auto-service discovery, node management, and configuration management for the various environments. Built several custom tools in Golang to allow developers to inspect and deploy our applications and trigger Ansible Playbook rolling deployments of apps for zero-downtime.

**Key Projects:**

- Introduced Ansible as a configuration management tool
- Re-architected all new infrastructure and introduced dev op tools to manage servers
- Managing dev/staging/production parity with Vagrant and Ansible
- Introduced continuous integration to deploy to clusters of machines

**3/2013 – 4/2014**

**Kiip**

Sr. Software Engineer

Helped scale and manage our large ad network. Spent the majority of my time building out services to improve performance and reliability of the code and site as well as helping out with infrastructure management and configuration with our Dev Ops lead. Helped introduce Golang to tech stack as well as helped move from Puppet to Ansible.

**Key Projects:**

- Built service in Go to replace Python code logic for serving our ad inventory
- Built a Riak proxy in Go to improve our PUT and GET times
- Helped move from Puppet to Ansible
- Managed metrics dashboards displayed around the office

**5/2011 – 3/2013**

**AuthorityLabs**

Lead Developer / Software Engineer

Hired as first lead developer to work with the CTO to build and maintain a network of scraping workers, a client API, and to re-write the user-facing website. Systems were built with scalability in mind to process millions of requests a day and allow users to access their history of SEO rankings. MongoDB was used to store massive amounts of search rankings a day as well as redis for workers.

**Key Projects:**

- Built and maintained custom service for a client to process monthly rankings of millions of keywords across their full suite of sites.
- Managed, built, and maintained a complete re-write and re-architecting of main web site. This included planning, coding front end, back end, and managing infrastructure and scaling.
- Billing systems re-writes for old client app and the API

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**EDUCATION**

2005 – 2009

Arizona State University

B.S. Computer Science w/emphasis in Software Design

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**CERTIFICATIONS**

12/2013

Coursera

Stanford Machine Learning