

Corey Gale

DevOps Expert | coreygale.com
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EDUCATION

MCMMASTER UNIVERSITY

BACHELOR OF ENGINEERING

Apr 2013, completed with co-op

SKILLS

MANAGEMENT

Mentorship • Prioritization • Team Building • Public Speaking

DEVOPS

Continuous Integration • Monitoring • Logging • Security • Cost-optimization

LANGUAGES

Python • JavaScript • Ruby • Bash • C# • Embedded C • Assembly

DATABASES & STORES

MySQL • Postgres • MongoDB • RabbitMQ • redis • memcached • Consul

CI & CD

Jenkins • GitLab • CircleCI • Drone

CONTAINERS

Docker • Kubernetes • ECS • EKS • Helm

ORCHESTRATION

Terraform • Troposphere • sceptre

CONFIG & BUILD TOOLS

Ansible • Packer • make • grunt • apex

METRICS & MONITORING

Prometheus • Grafana • ELK (ElasticSearch, logstash, Kibana) • New Relic • Data Dog • VividCortex • Sentry.io • papertrail • Graylog • PagerDuty

AWS

EC2 w/spot • ECS/EKS/ECR • Lambda • RDS • DynamoDB • ElasticCache • IAM • CloudWatch • S3 • SNS • SQS • VPC • Route 53 • CloudFormation • boto3

IAAS

DigitalOcean • Twilio.io • Mailgun.io

BACKEND

Django w/Django REST Framework • Node.js w/Express • dotnetcore w/Kestrel • IIS w/MVC • Nginx • Traefik • socket.io

FRONTEND

Bootstrap • React • VueJS • KnockoutJS

EXPERIENCE

GUMGUM | DEVOPS MANAGER

Aug 2019 – Present | Santa Monica, CA

- Led, mentored and managed a globally-distributed team of 3 talented DevOps engineers who are responsible for building, maintaining and operationalizing dozens of mission-critical systems at GumGum
- Revamped hiring process to analyze a wider range of technical skills earlier in the interview process, resulting in a shorter hiring loop and improved candidate experience
- On-boarded and managed relationships with external recruiters to help drive inbound DevOps talent
- Managed team priorities, meetings (story-pointing, retrospectives, demos) and roadmaps. Defined, documented and socialized team processes.
- Conducted weekly 1-on-1's with individual contributors

GUMGUM | SENIOR DEVOPS ENGINEER

Aug 2018 – Aug 2019 | Santa Monica, CA

- Supported a diverse, highly-distributed (1000s of nodes) technology stack built around a low-latency Java application that handles >20M RPM
- Designed and built AWS infrastructure for CV ML inference stack consisting of multi-environment Terraform IaC, automatic deployments and auto-scaling based on custom business and infrastructure metrics
- Designed reference architecture for introducing Kubernetes including new patterns for traffic routing with Ambassador and IaC packaging with Helm
- Helped spun-off dental division (now HelloPearl.com) move their codebase and CI system to GitLab while also moving to a new AWS account
- Created and open-sourced a tool (mechtron/ami-bakery) that enables idempotent AMI builds with Packer
- Active in public speaking: spoke at a joint webinar with Hashicorp/SpotInst and collaborated with CV scientist Greg Chu to speak about "How GumGum serves its CV at scale" at the LA Computer Vision Meetup

RING/AMAZON | SENIOR DEVOPS ENGINEER

Mar 2018 – Aug 2018 | Santa Monica, CA

- Amazon-acquired video doorbell company with over 5M connected devices
- Established organizational patterns for writing Terraform IaC. Wrote common module libraries for building repeatable Terraform implementations and enforcing process.
- Designed and built a custom blue-green deployment controller that enabled zero-downtime deployments and rollbacks of OpsWorks stacks
- Represented DevOps for a special project tasked with transitioning our systems, tools and processes into the Amazon ecosystem

SIXT4/TRIPSTACK | DEVOPS ENGINEER

Mar 2017 – Mar 2018 | Toronto, ON

- Established core DevOps processes and patterns used to develop and deploy the business's core application
- Designed and implemented application infrastructure in AWS capable of accommodating massive fluctuations in API usage while optimizing for cost
- Built an ELK stack (ElasticSearch, Logstash, Kibana, Filebeat, Metricbeat) for tracking key business metrics in real-time
- Active in recruitment: designed candidate interview process and take-home projects for certifying potential new hires

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PERSONAL PROJECTS

WEST LA DEVOPS MEETUP

2019 – Present

- Bi-monthly technical Meetup hosted at GumGum HQ
- We provide industry updates and host tech talks from well-known industry experts

IMAGE CLASSIFIER | ML

2018 – 2019

- App that provides live classifications of user-provided image links
- Tech stack: DRF, TensorFlow, Keras, ImageNet, Redis, MySQL, Nginx, VueJS, Kubernetes, Helm

TABB | BACKEND & DEVOPS

2016 – 2018

- Wrote the backend system for an iOS app that keeps track of debts between friends
- Users create Tabbs using our app's convenient wizard
- Tabb backend automatically sends out reminders to debtors via SMS/email at the interval specified by the Tabb creator

RADI-US | FULLSTACK

2015 – 2016

- Developed the server and single-page web app for an instant-messaging platform that connected its users in a special geolocalized chatroom known as the "radi-us"
- Users friended each other by tapping the usernames attached to messages from other nearby users
- Friends are able to privately message each other without the geofencing restrictions of the radi-us

ENTREPRENEURSHIP

Recipient of \$25k Jumpstart grant from FedDev Ontario (2013) • Winner of Hamilton Startup Weekend 2013

EXPERIENCE CONT'

TOP HAT | DEVOPS ENGINEER

Nov 2015 – Mar 2017 | Toronto, ON

- Designed and implemented a variety of tools, services and processes that enabled our dev team to more effectively write, test and deploy new code
- Assessed new product features and recommended changes that impacted designs to improve system performance, scalability and security
- Audited monitoring coverage and created new metrics to improve visibility of critical back-end services
- Significantly reduced testing costs by migrating our test suite from the private cloud to a self-hosted solution that could cost-effectively scale to keep total test time minimized
- Interviewed and evaluated technical abilities of engineering candidates

FIRMEX | DEVOPS ENGINEER

Dec 2013 – Nov 2015 | Toronto, ON

- Created core DevOps processes for a new B2B/B2C product specializing in secure large file transfer
- Managed a QA environment responsible for testing API and UI functionality at all stages of development
- Validated new features against PM specification and assessed impact on product performance and security
- Pitched idea for a new product feature that was green-lit by upper management. Worked on a cross-functional team to design and implement our feature which was very well-received by our customers. Sales then leveraged the industry-first feature to win new deals.

QUICKEE | Co-FOUNDER

Nov 2012 – Jan 2014 | Hamilton, ON

- Created a smartphone app (iOS & Android) that enabled our users to order food for delivery in under 30 seconds
- Led a team of five extremely driven individuals to design, validate and release the SaaS platform to delivery restaurants
- Our platform allowed restaurants to participate in the mobile food market, a market whose barrier to entry was very costly

BLACKBERRY | RELIABILITY ENGINEERING SYSTEM DEVELOPER

May 2011 – Aug 2012 | Cambridge, ON

- Designed and implemented a complex, yet robust software control system for world-class accelerated life test hardware
- Identified workflow inefficiencies and made suggestions for process improvements, many of which were specified and implemented.
- Managed tests for unreleased BlackBerry devices. Optimized the project management workload by automating daily tasks with Python.

MCMASTER UNIVERSITY | MECHATRONICS INSTRUCTOR

Sep 2010 – Aug 2011 | Hamilton, ON

- Led in the planning and instruction of an introductory course in Mechatronics for first-year McMaster Engineering students
- Designed a PIC-based robotics platform complete with custom PCBs and simplified skeleton C code