

Edward Corrigall

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Skills

- designing and implementing scalable products and productivity tooling
- planning long term objectives and working with teams to accomplish goals
- scaling existing products, performance tuning application and infrastructure
- automating using CloudFormation, Docker, Ansible, Python, or shell scripting
- deploying, migrating and managing enterprise software
- onboarding, mentoring, documenting and presenting
- producing simple and effective solutions by acknowledging that software systems evolve
- tailoring technology to suit the problem, rather than fitting the problem into the technology

| | ★★★★★ (5/5) | ★★★★☆ (4/5) | ★★★☆☆ (3/5) |
|-----------------------|---------------------------------------|---|------------------------------------|
| Infrastructure | CloudFormation, EC2, ECS, VPC | Redshift, S3, DynamoDB, RDS, ElastiCache, Docker, Packer, ElasticSearch | Ansible, Vagrant, Kubernetes, Helm |
| Languages | Python, Java, Bash | JavaScript, TypeScript | |
| Backend | Flask, SQLAlchemy, Alembic, ExpressJS | Hibernate, Liquibase, Google Web Toolkit | Android SDK, Spring, ExpressJS |
| Frontend | | ReactJS | jQuery, UIKit, VueJS, Bootstrap |
| Analytics | Looker | Kinesis, CloudWatch | |

Professional Experience

- Certified Amazon Web Service professional
- 10+ years software as a service (SaaS) experience
 - Development experience and automation
 - Software Development
 - Infrastructure Development
 - CI/CD Development
 - Data warehousing and Data Integrations
- 7+ years cloud service experience
 - Amazon Web Services,
 - Google Cloud Platform, and
 - Heroku

Ledn

Senior DevOps Engineer, October 2022 — April 2023

Business: financial tech focused on lending and savings account for digital assets

Environment: MongoDB, Mongoose, TypeScript, Docker, AWS Lambda, Serverless, Webpack, GitHub Actions, AWS, MongoDB Atlas

- focused on increasing developer velocity and information security
- automated rollout of internal password management tool (Passbolt) using Packer, Cloudformation, Elastic Load Balancer, AutoScaling Group and Route53
- created new one-way file upload service to secure sensitive customer data with Cloudformation and S3
- refactored out critical vulnerabilities out of NodeJS project
- incorporated NodeJS Package Module audit into CI/CD builds
- automated iOS TestFlight release to Apple Store using Fastlane and GitHub Actions
- investigated and solved single-lambda deployment failure relating to Webpack dependency traversal
- investigated and mitigated database migration release issues
- participated in long-term support planning and upgrades for NodeJS, MongoDB, CloudFormation Stack Resource Limit
- unblocked engineering release process by splitting large AWS Cloudformation Stack managed by Serverless infrastructure tool
- migrated frontend team CI/CD to a GitHub Actions GitFlow from CircleCI for improved workflow and cost savings

Clearco

Senior Software Engineer, August 2021 — October 2022

Business: business-to-business financial services: merchant cash advance, revenue sharing

Environment: PostgreSQL, TypeScript, Docker, Helm, Lens, GCP Kubernetes, GCP SQL, Netlify, VueJS, pgmigrate, Looker, Jenkins, GitHub Actions, JMeter, Figma

- backend technical lead for greenlit bills service product to support founder merchant cash advance
- bootstrapped NodeJS backend API project for engineers with team specific CI/CD workflow
- enabled team to experiment in isolation from monolith codebase to rapidly deploy changes for the first time
- complete migration from monolith to micro-service: codebase, source control, database and software release pipeline
- paved the way for engineering organization to break out into micro-services by offering support with documentation, knowledge share session and playbook
- protected customers from peak traffic by building out performance + load test automation
- successfully prevented degraded experience during Black Friday and Cyber Monday for eCommerce customers for the first time

Mark43

Senior Software Engineer, July 2020 — August 2021

Business: emergency service (police, fire, and paramedic) software as a service

Environment: MySQL, Java, Docker, AWS, Redis, Kafka, Elasticsearch, ReactJS, Looker

- code contributor of record management system team emergency services software
- overhauled State to Federal report export software for developers to easily maintain code and rapidly on-board new customers
- authored Elasticsearch request for change, describing: risk, mitigation steps, short and long term goals
- reduced Elasticsearch cluster capacity by roughly 40% (2TB+) without deleting any customer facing data
- improved MySQL average query response time by optimizing customer facing notification system

Naborly

Senior Software Engineer, December 2019 — July 2020

Business: Tenant and landlord services

Environment: Python, NodeJS, ExpressJS, ReactJS, MongoDB, Looker, Heroku, Stitch, Docker, RDS

- led on scrum, planning, grooming and retro meetings
- setup local development for team with docker compose and selenium end-to-end testing
- built out new CloudFormation ECS service stack to migrate cloud providers from Heroku to AWS
- delivered new API for rent guarantee claims service
- secured AWS account with IAM stack groups and policies
- reduced AWS costs from \$250 to \$40 USD per day — saving company more than \$75,000 USD per year
- improved looker no-SQL to SQL integration with stitch by adding MongoDB indices
- assumed ownership over Looker analytics to support and train sales / marketing teams
- transformed Looker analytics into a self-serve internal product

Acquia

Software Engineer, August 2017 — December 2019

Business: drupal hosting / content-management system software as a service

Environment: Java, Looker, CloudFormation, EC2, ElastiCache, Redshift, Kinesis, Data Pipelines, RDS, DynamoDB, Hibernate, Liquibase, Spring

- automated zero-downtime deploy of RESTful API auto-scaling group rolling update
- decoupled monolithic deploy: increase stability and speed for deploy during peak traffic
- rolled-out company security policy for read-only and elevate user access using Simple Token Service and IAM Roles
- led team web frontend refactor to help deliver unified experience across company
- retrofitted existing geo-location integration for improved accuracy and \$100,000 USD per year in savings
- on-schedule completion of core product: report authoring, providing customers with custom analytics dashboards for web traffic analysis
- built in-house tooling to improve developer and operation experience for team for SSH autocomplete and AWS Session Tokens to assume roles
- resolved outstanding RESTful API database throttling

Instacart

Platform Engineer, January 2016 — August 2017

Business: grocery eCommerce and shopping fulfillment

Environment: Python, Flask, SQLAlchemy, Alembic, PostgreSQL, Memcached, Redis, Ansible, Vagrant

- implemented RESTful API ecommerce features including coupon clipping and up-sell at checkout
- optimized offers engine and added couponing feature
- on-call technical support for disaster recovery
- providing hot-fix solutions to comply with service-level agreement
- first to assess and troubleshoot issues affecting customer eCommerce experience
- preparation and deployment of new software releases to staging and production environments
- coordinating downtime and hardware upgrades for retailer environments
- solved outstanding many-to-many mapping issue causing product mismatch for Lowes Foods customer

Education

Bachelor of Computer Science — Honours, Co-op

University of Waterloo
Waterloo, Ontario

Certifications

AWS Certified Developer — Associate 2018

PSI Services LLC
[License Verification #9JZ0Y2GCJME4QRW9](#)

**Programming Mobile Services for Android
Handheld Systems — Communication 2016**

Corsera Course Certificates
[Credential ID MEAJXDNAXQ](#)

**Programming Mobile Services for Android
Handheld Systems — Part 2, 2015**

Corsera Course Certificates
[Credential ID ANB9AQDUBZ](#)

**Programming Mobile Services for Android
Handheld Systems — Part 1, 2015**

Corsera Course Certificates
[Credential ID R5JF2BGZTM](#)

Tech Project Highlights

- [Agnostic Database Migration Tool](#)
- [Toy Programming Language](#)
- [Microsoft Excel API for NodeJS](#)
- [Tiny URL Service](#)
- [OpenGL Game Engine](#)
- [AWS CLI Extension - Resource Administration and Tooling](#)

Hobbies and Interests

- Gardening and Koi Pond
- Astronomy
- Bass and Guitar
- Sailing
- Brewing: beer, wine, mead, etc
- Rock Climbing
- Home Networking / NAS
- Retro Computing
- Compilers