

# Edward Corrigall

Kitchener, Ontario, Canada

[eddiecorrigall@gmail.com](mailto:eddiecorrigall@gmail.com), [@LinkedIn](#), [@GitHub](#)

## 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
- focusing on simple and effective solutions

	□□□□□ (5/5)	□□□□□ (4/5)	□□□□□ (3/5)
<b>Infrastructure</b>	CloudFormation, EC2, ECS, VPC	Redshift, S3, DynamoDB, RDS, ElastiCache, Docker, Packer, ElasticSearch	Ansible, Vagrant, Kubernetes, Helm
<b>Languages</b>	Python, Java, Bash	JavaScript, TypeScript	
<b>Backend</b>	Flask, SQLAlchemy, Alembic, ExpressJS	Hibernate, Liquibase, Google Web Toolkit	Android SDK, Spring, ExpressJS
<b>Frontend</b>		ReactJS	jQuery, UIKit, VueJS, Bootstrap
<b>Analytics</b>	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, NodeJS, 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
- completed migration from monolith to micro-service: codebase, source control, database and software release pipeline

- tail-blazed path for engineering organization to break out into micro-services by offering support with documentation, knowledge share session and playbook
- protected customers from peek traffic by building out performance + load test automation
- 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

## Unata / Acquired by 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 Lowe's Foods customer

# Education

**Bachelor of Computer Science — Honours,  
Co-op**

University of Waterloo  
Waterloo, Ontario

## HackerRank Certificates

**Java (Basic) Certificate 2023**

HackerRank

[Verification #717d4639a4d7](#)

**Python (Basic) Certificate 2023**

HackerRank

[Verification #726081e81ce7](#)

## Amazon Web Services Certificates

**AWS Certified Developer — Associate 2018**

PSI Services LLC

[License Verification #9JZ0Y2GCJME4QRW9](#)

## University of Maryland, College Park

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

Coursera

[Verification #R5JF2BGZTM](#)

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

Coursera

[Verification #ANB9AQDUBZ](#)

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

Coursera

[Verification #MEAJXDNAXQ](#)

## Tech Project Highlights

- [Toy Programming Language](#)
- [Microsoft Excel API for NodeJS](#)
- [Tiny URL Service](#)
- [OpenGL Game Engine](#)
- [Agnostic Database Migration Tool](#)

## Hobbies and Interests

- Outdoors: gardening, koi pond, astronomy
- Computers: home networking (FreeNAS), retro computers, compilers
- Sports: rock climbing, sailing
- Other: music (bass, guitar, etc.), home brew (beer, wine, mead, etc.)