

# Edward Corrigall

Toronto, Ontario, Canada  
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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 Linux-based systems

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

## Professional Experience

- 10+ years work experience as a software engineer.
- 6+ years experience with cloud services:
  - Amazon Web Services,
  - Google Cloud Platform, and
  - Heroku.
- certified Amazon Web Service professional.

## Clearco

**Senior Software Engineer**, August 2021 — *present*

**Environment:** PostgreSQL, TypeScript, Docker, GCP Kubernetes + SQL, Netlify, ReactJS, pgmigrate, Looker, Jenkins, GitHub, JMeter

- technical lead for new greenlit bills service product to support founder merchant cash advance
- successfully migrated out of monolith into independent microservice: codebase, repository, database and build pipeline
- worked above and beyond to automate and document local development experience and improve integration environment for engineering organization
- preemptively battle tested internal APIs to support eCommerce customers for Black Friday / Cyber Monday to catch potential issues with new load testing project

## Mark43

**Senior Software Engineer**, July 2020 — August 2020

**Environment:** MySQL, Java, Docker, AWS, Redis, Kafka, ElasticSearch, ReactJS, Looker

- code contributor of record management system team emergency services software
- 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 internal notification service
- overhauled State to Federal report exports to easily maintain code and rapidly on-board new customers

## Naborly

**Senior Software Engineer**, December 2019 — July 2020

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

- led scrum, planning, grooming and retro meetings more effectively
- 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
- helped build 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
- took initiative to overhaul Looker analytics

## Acquia

**Software Engineer**, August 2017 — December 2019

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

- automated zero-downtime deploy of rest api auto-scaling group rolling update
- decoupled monolithic deploy: increase stability and speed for deploy during peak traffic
- designed rolled-out company security policy for read-only and elevate user access
- led team web frontend refactor to help deliver unified experience across company
- replaced 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
- resolved outstanding rest api database throttling
- built in-house tooling to improve developer and operation experience for team

## Instacart

**Platform Engineer**, January 2016 — August 2017

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

- implemented rest api ecommerce features
- 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

# 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

- [Home Networking Project: DNS](#)
- [Toy Programming Language](#)
- [AWS CLI Extension - Resource Administration and Tooling](#)
- [Microsoft Excel API for NodeJS](#)
- [OpenGL Game Engine](#)
- [Tiny URL Service](#)

# Hobbies and Interests

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