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

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

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 relatating 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 infrastructor 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 peek 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 — Comunication 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