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EXPERIENCE

7/23 – 11/24

LEAD SOFTWARE ENGINEER, NEW RELIC

Architected and developed deployment platform using AWS that ported an existing docker deployer image to a service that was leveraged for E2E and regression testing

Mentored teams' on usage of deployment platform and it's usage within various onboarding testing repositories

IC for New Relic's greenfield workflow product built leveraging temporal.io's cluster and SDK

9/21 – 7/23

SENIOR SOFTWARE ENGINEER, NEW RELIC

Designed and developed new user onboarding and data ingest monitoring and alerts using New Relic Synthetics, Alerts and AWS (EC2, Lambda). Alerting mechanism lowered MTTD and MTTR for regressions in first-day ingest by classifying the point-of-failure from signup to data ingest

Implemented New Relic Java Agent installation that dynamically re-attached New Relic to various application server processes. Install provided customers a seamless, zero-configuration option to instrument various application servers, both standalone and containerized

IC for various Growth Engineering initiatives: newrelic-cli and installation 'recipes'; Observability-as-Code solutions (puppet module for installing New Relic agents); migrating onboarding UI to use New Relic's Install Framework (UI as yaml)

Technical: Java, Golang, Terraform, CDK, Typescript, Javascript, Puppet, Ruby, various AWS resources (ECR, Fargate, Lambda, State Machines, SNS/SQS), Temporal, Kubernetes/Helm

7/17 – 9/21

SENIOR SOFTWARE ENGINEER, CARFAX

Architected SMS Alerting product responsible for notifying dealers subscribed to Carfax's products of new Buyer and Trade-In Leads sourced from Carfax's Used Car Listings site

Architected cloud-native solution for Dealer-Account-Management application leveraging Typescript/NodeJs (frontend), Serverless Framework (backend api/lambda) and CDK (Networking, Cloudfront Distribution)

Increased developer bandwidth by designing and implementing patterns for migrating and automating frequently requested ad-hoc reporting jobs by leveraging Jenkins on an EC2 instance and Kotlin

Lead lift-and-shift migration of existing groovy/Spring Boot services to AWS

Utilized Global DynamoDB tables and SQS messaging to implement low cost read-only failover mechanism for high traffic dealer service endpoints

Technical: Groovy, Java, Spring Boot, Serverless Framework, Terraform/Terragrunt, CDK, Typescript, NodeJS, Python, MySQL, various AWS products (S3, Route53, ApiGateway, Lambda, Aurora RDS, DynamoDB, EC2, State Machines)

2/17 – 7/17

SENIOR SOFTWARE ENGINEER, EQUIPMENTSHARE

Contributed to Telematics business rule engine: introduced discrete, partitioned databases for processed data; added the ability to scale to N-number of application databases to help limit blast radius and improve data consistency for our customers.

Contributed algorithms to Telematics engine which improved accuracy of when company assets were making 'Trips' (moving while not running, asset being hauled etc)

Programmatically utilized SMS messaging to maintain and deploy company-defined configurations to 3rd-party vehicle tracking devices

Adapted and processed tracking data provided by John Deere, Komatsu and Hyundai, which provided customers with one view of their assets on our web application, regardless of tracking data source (manufacturer)

Technical: python, pyramid, flask, AWS (S3, RDS, Route53, SNS), Postgres, MongoDB, RabbitMQ, angularJS

3/11 – 2/17

PRODUCT DEVELOPER, CARFAX

Leveraged proprietary internal cloud solution and Microservice architecture principles to re-architect consumer business domain, which upon completion enabled a unified consumer experience across web, mobile web and native mobile consumer applications

Architected consumer domain to accommodate revenue-increasing features as well as new consumer support enhancements: report stacking, ability to issue a variety of refunds (free reports, partial/full refunds), issuing report 'vouchers', decoupled consumer account creation from requiring product purchases

Increased consumer revenue via PayPal and AmazonPay payment processor options into consumer report purchase path.

Authored REST service used to manage Carfax's quarterly Hackathons

Technical: Java, Groovy, JUnit, Spock, Spring Boot/MVC/Batch, Grails, MySQL, Oracle, RabbitMQ

12/04 – 2/11

SENIOR SOFTWARE ENGINEER, ENTERPRISE HOLDINGS

Integrated existing Alamo and National Car Rental web services into Enterprise Rent-A-Car's internet reservation service, providing customers with a seamless experience between all three brands from a single web application.

Created SOAP service in compliance with OpenTravelAlliance specification to expose internet reservation functionality to third-party travel sites (orbitz.com, kayak.com)

Technical: Java, Struts, Axis, Servlets/JSPs, Hibernate, Oracle, Tuxedo, RPG

06/04 – 12/04

CUSTOMER SUPPORT SPECIALIST, MONSTERCOMMERCE LLC

Provided customer support for our shopping cart software: basic HTML/Javascript development and general application support.

EDUCATION

BS COMPUTER SCIENCE, SAINT LOUIS UNIVERSITY '04