Karl Parkinson

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Work Experience

Senior Site Reliability Engineer

Jobber

June 2021 - Present

Edmonton, AB

- Automation of operational tasks using Ruby and Bash. Examples include automatic rollout of new configuration variables to running services and nightly zero downtime application of operating system updates to instances in ECS clusters.
- Assist with new service rollouts by helping developer teams estimate capacity needs, build cloud infrastructure with Terraform, identify architectural bottlenecks, and write playbooks to minimize MTTR of future incidents after service rollout.
- Administration of large-scale containerized Ruby on Rails application and backing services in AWS ECS..
- Document operational tasks to enable repeatable actions and future automation.

Site Reliability Engineer

Jobber

May 2019 - June 2021

Edmonton, AB

- Migrated cloud infrastructure from Heroku to a cluster of Docker containers in AWS ECS. Work included writing Dockerfiles to move to a container runtime environment, building cloud infrastructure with Terraform, enabling blue/green deployments with CircleCI and Bash, and ensuring a zero downtime switch of production traffic from Heroku to AWS.
- Participant in after-hours and daytime PagerDuty rotation. Respond to platform emergencies and alerts and debug production issues across all levels of the stack.
- Teaching and documenting on-call processes to establish strong operational readiness across teams. Lead postmortems and root cause analysis to improve all aspects of system performance and reliability in order to increase MTBF and minimize MTTR.
- Set up operational dashboards using New Relic and Prometheus with alerts flowing to Slack and PagerDuty for visualizing service metrics and performance of production environments.
- Documented Terraform IAC best practices to enable education and future adoption.

Software Developer

Jobber

June 2016 - May 2019

Edmonton, AB

- Full stack feature development in Ruby on Rails and Javascript.
- Worked on a payment system called Jobber Payments that grew to process over \$1 billion. Primarily wrote backend
 code in Ruby to integrate payment processor APIs, and documented testing processes for future maintenance and
 upgrade work.
- Developed an online booking feature that allows customers to book appointments with home service providers.
 Translated designer mockups into user interfaces with Javascript, created automated tests to ensure correctness, wrote backend code in Ruby, and developed a solution to integrate the feature securely with the websites of home service providers.

Software Development Intern

Invidi Technologies Corporation

May 2014 – September 2015

Edmonton, AB

- Development of an automated testing framework designed to ensure the Invidi Advatar platform performs correctly at scale. Wrote Ruby code which first simulates a daily load of SOAP calls made in a customer deployment, collates response time results, and then displays a report summarizing the performance of the system under test.
- Helped design and engineer a real-time data analysis and monitoring tool to diagnose the health of the Advatar platform. Primarily worked on writing SQL stored procedures in the data warehouse and developing JUnit tests to ensure correctness of code used to extract data from customer logs.

Education

University of Alberta BSc with Specialization Computing Science

September 2011 – May 2016