

Royer Ramirez Ruiz

info@royerramirez.com

royerramirez.com

LinkedIn

EXPERIENCE

Staff Engineer – DevOps & MLOps

Maven Robotics

December 2024 – Current

- ◆ Lead infrastructure engineer, owning all aspects of cloud, on-prem, and edge infrastructure powering AI-driven robotics systems.

Founding Engineer

Browserbase

May 2024 – November 2024

- ◆ Spearheaded a major migration from ECS to EKS, enhancing platform security, enabling seamless scalability, and supporting a multi-regional strategy to accommodate future growth.
- ◆ Led and ensured SOC 2 Compliance for the Engineering team, paving the way for enterprise partnerships.
- ◆ Redesigned and implemented a cutting-edge networking architecture focused on scalability and security.
- ◆ Architected and deployed ArgoCD, facilitating streamlined CI/CD rollouts across all environments.
- ◆ Led the adoption of NATS (Jetstream), ensuring scalability and removing single points of failure.
- ◆ Designed and launched a comprehensive monitoring stack (Fluent-bit, Prometheus, Loki, Grafana) that delivers real-time visibility and alerts for the production environments.

Sr. DevOps Engineer – Factory Data

Rivian

October 2021 – May 2024

- ◆ Designed a cloud agnostic ML platform enabling Continuous Training (CT) by leveraging, ZenML, MLFlow, and Kubeflow. Currently used in production to train factory models that run on the edge.
- ◆ Lead the effort in designing and future proofing new factories with a data centric architecture.
- ◆ Defined terraform best practices and helped drive Infrastructure as Code (IaC), with cross team adoption.
- ◆ Worked across various teams within Rivian to create an internal replication solution. This replication solution consisted of replicating relational databases and event-based messages from NATS into Snowflake.
- ◆ Built a custom python program that pushes more than 2 million files out of the factory floor.
- ◆ Mentored Engineers on various topics including Kubernetes architecture, RDS replication, networking, scaling systems, and building infrastructure to support large models at scale.
- ◆ Built and deployed shared Manufacturing Kubernetes clusters using Terraform.
- ◆ Helped launch Enduro drive units by bringing cross team alignment from the technology business units.
- ◆ Lead and conducted large migrations with zero downtime for all PostgreSQL databases across the factory.

DevOps Engineer

Rakuten

July 2019 – October 2021

- ◆ Built and maintained 50-60 GKE clusters in dev, stage, and prod environments.
- ◆ Ensured IaC was adopted by using custom Terraform modules that were easy to use.
- ◆ Built and maintained CI/CD tools like Spinnaker, Kubeflow, and Jenkins.
- ◆ Built multiple internal tools that helped with performing security audits on Google Cloud Platform (GCP) that monitored external IP's, firewall rules, and IAM permissions.
- ◆ Built internal API's that shutdown GKE and GCE instances based on schedules or posted requests. This helped with cost saving measures and would bring up DR environments when an outage was detected.
- ◆ Created an autoscaling feature that safely turned on/off StatefulSets like Elasticsearch running on GKE. This helped save on costs by ensuring resources were not idling.
- ◆ Implemented private Alpha and Beta offerings from GCP into Rakuten's environment. This helped ensure the environments stayed up to date with the latest in cloud computing offerings.
- ◆ Maintained and deployed monitoring tiers that consisted of Prometheus, Elasticsearch, Kibana, and Grafana.
- ◆ Designed and deployed a service mesh architecture that used Envoy and Traffic Director to all GKE clusters.

Advanced Analytics Specialist

Metia

October 2018 – July 2019

- ◆ Accelerated unsupervised NLP topic modeling pipelines in R and Python, reducing compute time from weeks to hours, enabling faster experimentation and insight generation for enterprise Machine Learning initiatives.
- ◆ Co-developed and containerized a distributed web crawler in Node.js, scaling data ingestion pipelines that supported downstream analytics and machine learning workloads.
- ◆ Designed ad-hoc data models and executive dashboards to deliver actionable insights to Microsoft leadership, directly informing product and business strategy.
- ◆ Engineered and maintained SQL databases, containerized workloads, and virtualized environments to support large-scale analytics and ML experiments.

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Technical Analyst

Euronet Software Solutions

December 2017 – October 2018

- ◆ Assisted financial institutions to meet dynamic requirements set by Visa and Mastercard. Resolved production incidents in real time for major financial institutions, ensuring uptime and continuity of mission-critical banking services across millions of daily transactions.
- ◆ Led preventative disaster recovery failovers to alternate data centers, enabling seamless production upgrades with zero customer disruption.
- ◆ Tested, hardened, and deployed custom security features for enterprise banks, improving resilience against evolving compliance and threat requirements.
- ◆ Executed live migrations between production and disaster recovery regions, minimizing downtime while safeguarding sensitive financial data.
- ◆ Partnered with institutions to achieve compliance with dynamic Visa and Mastercard standards, ensuring uninterrupted payment processing and regulatory alignment.

EDUCATION

B.S. in Applied Mathematics,
Minor in Physics

University of Central Arkansas

2013 – 2017

Mathematics Senior Electives

- Modeling & Simulation
- Numerical Methods
- Ordinary Differential Equations I, II
- Stochastic Processes

Physics Electives:

- Classical Mechanics
- Experiments in Physics - Meteorology
- Observational Techniques – Astronomy
- University Physics I, II, III

SKILLS

Orchestration:

Kubernetes (GKE, EKS, Talos) • ArgoCD • Helm

Cloud & Infra:

GCP • AWS • Terraform • Ansible • Istio Ambient • Traefik • Networking • NATS • Git • Github • GitLab

MLOps & Data:

ZenML • MLFlow • Kubeflow • Snowflake • NVIDIA B200/H100 • GPU Orchestration • PostgreSQL • Python • R

SOCIETIES

SIAM - Computational Science and Engineering • SIAM - Data Science • ACM • DevOps Institute