Warren McDonald

Harrison, NJ | www.linkedin.com/in/warren-david-mcdonald

EXPERIENCE

Interwell Health LLC, Remote — *Lead Devops Engineer*

August 2022 - January 2026

- Led comprehensive DevOps transformation, orchestrating cloud infrastructure, Dockerizing applications, and implementing CI/CD pipelines in GitHub Actions (migrating from Jenkins) for front-end, back-end, and DevOps tools, optimizing system performance and reliability
- Architected and maintained highly available AWS Kubernetes clusters and managed 100+ Route53 domains, ensuring seamless infrastructure deployment for enterprise operations
- Drove AWS to Azure migration, utilizing Terraform and reducing annual AWS spend
- Led the design, deployment, and implementation of Databricks in Azure via Terraform, enabling data engineers to leverage AI and machine learning for improved patient outcomes
- Led cross-functional teams to implement IaC, containerization, and automated testing, establishing SOC 2 compliant disaster recovery protocols
- Provided 24/7 on-call support, collaborating with developers to rapidly resolve issues impacting web applications

Workpath, Remote — *Senior Devops Engineer*

October 2021 - June 2022

- Created infrastructure and deployed applications in AWS using Terraform
- Managed Kubernetes, Fargate and EC2 instances
- Moved VPN to new Pritunl AMI, added config to terraform and setup vpc peering to allow access to all environments
- Wrote BASH and Golang scripts to streamline the creation of new test environments
- Facilitated transition from AWS Route53 to cloudflare for DNS services
- Began transition from AWS Code Pipeline and Github Actions to CircleCI for better deployment visibility
- Setup Cross Region read replica RDS cluster for resiliency
- Implement dashboards for observability using Prometheus and Grafana

Synchrony, Remote — *AVP, Senior Devops Engineer*

July 2018 - October 2021

- Deployment Management using Chef/Opsworks in AWS and SDLC management (server and mobile)
- Build, monitor, and maintain production, dev and staging environments
- Write deployment scripts in Python that leverage AWS APIs to deploy services via Jenkins
- Implemented Autoscaling rules that reduced service timeouts by 90% during traffic spikes.
- Wrote documentation of infrastructure to help employees better navigate environments
- Create AMIs using Packer and Jenkins with security hardening software installed as well as Docker
- Managed off-shore team and do regular code reviews

New York Media, New York, NY — *Devops Engineer*

May 2017 - May 2018

- Managed and streamlined CI/CD pipelines, transitioning the dev team from Github Actions to CircleCI, and troubleshooting Docker container build/deployment issues
- Deployed a NodeJS CMS with a PostgreSQL database using AWS CodeDeploy scripts and wrote BASH scripts to automate deployment
- Configured Apache and Nginx rewrites for multiple domains and made Fastly VCL changes to optimize CDN performance
- Built and maintained an ELK stack (Elastic Search, Logstash, Kibana) for developer use
- Maintained and troubleshot legacy applications

Kenzan Media, New York, NY — *Devops Engineer*

April 2016 - April 2017

- Maintain AWS environments, build and deploy AMI's via Bamboo and Ansible
- Write Terraform scripts to deploy AWS infrastructure
- Wrote python scripts to unhex Aegisthus data in AWS
- Researched and deployed open source solutions and infrastructure such as Graylog and Netflix tools for clients

Comcast, Philadelphia, PA — *Devops Engineer*

March 2014 - March 2016

- Build and deploy over a dozen Java based services in Tomcat/Jetty servers with logging in Splunk
- Performed Blue/Green (Canary) deployments using Puppet and managed business and data service applications for back office (XBO) and administered Cassandra DB
- Created JRuby RestfulAPI and front end that scanned Java apps via JMX
- Assisted in SVN to GIT migration

PROJECTS

- Personal AI Agent Development
- Engineered an autonomous AI agent using local LLMs, MCP servers, and function calling to streamline information retrieval and automated research workflows.
- Integrated custom tools and a reasoning loop (ReAct) to enable multi-step task execution, demonstrating experience in agentic system architecture.

EDUCATION

New Jersey Institute of Technology — *B.S in IT*

September 2007 - December 2012, Newark, NJ

Certifications

AWS Certified Developer - Associate, April 2021 - April 2024 (F2B4829BC24E13GF)