Machine Learning & DevOps Engineer

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About Me

Innovative Cloud and AI Architect with over 15 years of experience in cloud-based infrastructure, AI-driven solutions, and DevOps. Passionate about leading the standardization of AI models and optimizing workflows for scalability and efficiency. Proficient in MLOps (MLFlow), deep learning frameworks (PyTorch, TensorFlow), and cloud platforms (AWS, Azure). Skilled at creating scalable solutions that drive efficiency, streamline operations, and seamlessly integrate machine learning models. Seeking opportunities to lead transformative AI initiatives with a focus on infrastructure excellence.

SKILLS

Cloud & Infrastructure
- AWS, Azure
- Kubernetes, Docker, Terraform, Ansible.

Machine Learning & AI
- Deep Learning: PyTorch, TensorFlow, Keras, Sci-kit
- Probabilistic Modeling, Stochastic Optimization, Graph Theory
- MLOps: MLFlow, KubeFlow

Devops and Automation
- CI/CD Tools: Jenkins, AWS CodeBuild, GitLab CI
- Scripting Languages: Bash, Python, Shell
- IaaC: Terraform, CloudFormation

Monitoring & Observability
- Grafana, Prometheus, ELK Stack, AWS CloudWatch, CloudTrail

Source Code Management

WORK EXPERIENCE

29/10/2022 – 30/04/2024
Lead Consultant
Velux, HCL, Qworks (Freelance)

- Develop and implement machine learning models
- **Design and optimize cloud-based architectures** on platforms such as Azure and AWS
- **Implement and refine observability frameworks**, ensuring effective monitoring and alerting for AI models deployed in production environments.
- **Manage and automate onboarding and change requests from platform consumers**, using CI/CD pipelines, including Terraform.
- **Manage Databricks notebooks, clusters, and jobs.**
- **Develop AI and ML models using Python and deep learning frameworks** such as TensorFlow, PyTorch, and Keras.
- **Collaborate with cross-functional teams** to integrate ML models and features into SaaS products, ensuring seamless operation and scalability.

06/08/2018 – 07/09/2021
Software Architect
UST Global

- **Implemented DevOps** for State Street Corporation (Git, Ansible, Jenkins, JFrog, Urbancode Deploy, Terraform).
- IaaC development in Terraform.
- Designed DevOps for Wolters Kluwer, Cisco , Boots and Anthem
- Infrastructure provisioning on AWS using services like Lambda, EC2, EKS, Fargate, ECS, S3, RDS, Route53 and others
- **Prepare RFP responses** for various prospective clients like Govt of India(UIDAI).
- SME for **AWS, Azure and Openstack** cloud engagements.

25/09/2017 – 04/08/2018
Sr Linux Administrator
Arris India PVT LTD

- Design and implementation of scalable private cloud using Openstack and Kubernetes with monitoring solution using Grafana and Prometheus.
- Designing cache memory monitoring solution for The Weather Channel VOD service using timeseries Innodb, Python and Grafana.

- Git, GitHub, Bitbucket

Database & Data Engineering
- Azure Data Factory, Azure Databricks, SQL, Postgres
- Data Modeling and Pipeline Design

Tools & IDEs
- Jupyter Notebook, Visual Studio Code

• Architecting Build and Release by developing DevOps platform with Jenkins as build
server and docker based services for Java based applications and their test
environments.
• Implementing Postgres database backup and recovery strategies.

01/01/2017 – 22/09/2017
WebOps Manager

Ricoh Innovations

• Artificial Intelligence based AWS Lambda API Monitoring and log analysis with
Graylog and grok Patterns and migration from Splunk satisfying Deloitte SOC2 auditing.
• Python programming for API monitoring and logging for forensic analysis.
• Implement ITIL Practices for the newly formed Operations Team

Other Experiences

UST Global	01/06/2016 – 31/12/2016
Infrastructure Analyst	
EY	01/05/2015 – 29/12/2015
Senior Associate	
Sabre Holdings	18/08/2014 – 30/04/2015
Linux Administrator	
Diya Systems	29/04/2013 – 14/08/2014
Senior Linux Administrator	
WebhostingPad	07/09/2012 – 28/04/2013
Technical Support Engineer	
Armia Systems	10/09/2007 – 12/04/2008
Systems Engineer	

EDUCATION

22/08/2024– 31/08/2026
Master of Science , Image Analsyis & ML
Uppsala University
04/09/2021 – 31/08/2022
Master of Science , Data Science
University of Europe for Applied Sciences
01/08/2002 – 31/08/2006
Bachelor of Technology, Computer Science and Engineering
College of Engineering , Chengannur (IHRD - CUSAT)