

# Mithun Cheriya

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## Professional Summary

I am an AWS Certified Solutions Architect with 18+ years of IT experience and a solid understanding of customer focused Software Development using Scaled Agile Framework for Lean Enterprises. I am an expert in building, deploying, and managing complex infrastructure and applications and have a proven track record of delivering robust and scalable solutions that optimize performance, enhance security, and streamline operations. I am passionate about leveraging cutting-edge technologies and best practices to drive innovation and continuous improvement.

## Core Competencies

- Experienced in design, develop, deploy and manage scalable architecture
- Experienced with Cloud Computing for more than 11 years
- Experienced in configuration management using Ansible and Terraform
- Extremely knowledgeable about CI/CD integration
- Experienced with Agile development methodologies (SAFe)
- Knowledgeable in languages including Python and Nodejs
- Strong use of Shell scripting languages including bash for Linux

## Certifications

- AWS Certified Security - Specialty
- AWS Certified Solutions Architect – Professional
- AWS Certified Solutions Architect – Associate
- Certified Docker Specialist
- Google Cloud Platform Developer
  - Google Cloud Storage Qualified Developer
  - Google Compute Engine Qualified Developer
- AWS Business Professional
- AWS Technical Professional
- Red Hat Certified Engineer
- Cisco Certified Network Administrator

# Technical Skills

**Cloud Services:** Amazon Web Services, Google Cloud, Heroku

**Workflow Automation:** Apache Airflow and Step Functions

**Web Server Administration:** Apache, Nginx

**Database Server Administration:** AWS RDS, Cassandra, MongoDB, PostgreSQL, MySQL

**Scripting:** Bash, Python, Nodejs

**Continuous Integration:** Jenkins

**Infrastructure Orchestration:** Terraform, Ansible, CloudFormation

**Source Control / Documentation Tools:** GitHub, Bitbucket, Confluence, ReadtheDocs

**Messaging System:** Apache Kafka, SQS, Twilio

**Big Data Tools:** Redshift, Cloudera, Athena, Glue, Snowflake

**Virtualization/Containerization Tools:** Docker, Vagrant, VirtualBox, AWS ECS, Kubernetes

**Monitoring Tools:** ELK, Prometheus, Grafana, Graylog2, Splunk, New Relic and Datadog

## Professional Experience

**June 2018 – till date**

Lead DevOps Engineer | Cox Automotive | Atlanta, GA, USA

### Key Projects

#### Enterprise Data Platform

Implement DevOps practice with automation using CI/CD pipeline for Enterprise Data Platform.

#### Technology/Domain Coverage:

Terraform, Jenkins, Apache Airflow, Amazon Web Services, Artifactory, API Gateway, ELK, New Relic, SonarQube, Docker, Microservices written in Python, Java and Nodejs.

#### Roles and Responsibility:

- Automate Infrastructure and application deployment using terraform
- Define standards and enforce DevOps best practices
- Build and Automate CI/CD for Microservices/APIs
- Implement and maintain automated workflows using Airflow
- Implement DevSecOps to Identify and Mitigate possible threats
- Implement Code Quality and Build Metrics to evaluate Agile Practice and KPIs
- Implement Infrastructure and Service monitoring solution

**January 2018 – June 2018**

Lead DevOps Architect | ADP Inc | Alpharetta, GA, USA

### **Key Projects**

#### **ADP Marketplace**

Build and Improve DevOps practice with a hybrid hosting solution.

#### **Technology/Domain Coverage:**

Microservices, Layer 7 API Gateway, Slack, Hybrid Cloud- AWS ECS, RDS, Docker, Jenkins, NodeJS, Ansible, MySQL Galera Cluster, MongoDB, Kubernetes, Rancher.

#### **Roles and Responsibility:**

- Lift and Shift Microservices from Datacenters to AWS
- Automate CI/CD and Containerize Microservices/APIs
- Build Hybrid hosting solutions to enhance the scalability of microservices

### **October 2016 – December 2017**

DevOps Architect | Prokarma Inc | Denver, CO, USA

### **Key Projects**

#### **Nordstrom Inc.**

Development of a self-learning chat bot for handling in-store credit services.

#### **Technology/Domain Coverage:**

Twilio, AWS Lex, AWS Lambda, AWS API, CloudWatch, S3, Python, Serverless Framework.

#### **Roles and Responsibility:**

- Develop APIs and lambda functions to look up and validate employee/customer details
  - Develop Chat bots using AWS Lex models
  - Automate CI/CD for new intents using tools like Jenkins and python
  - Deploy Application using serverless framework
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#### **Veritas Technologies**

Implement an Opensource License Management (OLM) and Security Evaluation tool

#### **Technology/Domain Coverage:**

Whitesource/Blackduck, Python, Bitbucket, Opensource software system, Custom Build System.

**Roles and Responsibility:**

- Evaluate and Implement tools like Whitesource or Blackduck for license management
  - Generate Bill of Materials of all Third-Party libraries in a release build
  - Dynamically generate security vulnerability report and bugs present in a product
  - Automate the process and integrate with veritas build system
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**Keas/Welltok Infrastructure Migration**

Migration of a Health Care SaaS product from Rackspace to Amazon Web Services.

**Technology/Domain Coverage:**

Amazon Web Services, Rackspace, Python, Chef and Ansible

**Roles and Responsibility:**

- Migration effort estimation
  - Re-write Chef to Ansible for configuration management
  - Migrate Application and database from Rackspace DC to Amazon Web Service
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**January 2008 – October 2015**

Technology Lead | QBurst Technologies | INDIA/UAE/UK/US

**Key Projects**

**Supply Chain Insights for Savi Technologies**

**Technology/Domain Coverage:**

Amazon Web Services, Python, Wildfly, Java, Cassandra, Apache Spark, Cloudera CDH5, Apache Kafka, Docker, Jenkins, Slack, Graylog2 and Ansible

**Roles and Responsibility:**

- Design, build, deploy and automate end-to-end infrastructure on Amazon Web Services
  - Identify, diagnose, and resolve complex technology issues efficiently in production environment and drive quick resolutions – as well as – leverage those events to improve current technology & processes towards prevention of such issues.
  - Analyze project delivery results by conducting system audits of implemented technologies
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### **Smart TV App for Samsung USA**

An application that provides feeds on Smart TV based on the program schedules, actors, artists and ratings. This app also fetches feeds from the customer's Facebook and Twitter accounts.

#### **Technology Used:**

AWS OpsWorks, AWS RDS, Java, Storm, Kafka, Hadoop, Memcache, Chef Solo, New Relic

#### **Roles and Responsibility:**

- Cloud Application Management
  - Capacity Planning and Infrastructure orchestration
  - Implement CI/CD
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### **ISP Intranet for Plusnet UK**

An intranet portal supporting more than 1 million active customers for internet and telephone services. Mainly used by customer service agents to troubleshoot issues related to billing and service features.

#### **Technology Used:**

LAMP, JBoss, Git, Docker, Xen

#### **Roles and Responsibility**

- Optimizing Billing Modules
  - Developer-POD Environment Setup
  - Implement Backup, Monitoring and maintenance solutions
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### **July 2006 – January 2008**

Linux Administrator | Vanilla Networks Pty Ltd | KERALA, INDIA

#### **Roles and Responsibility:**

- Server Virtualization using VMware and Xen
- Technical Support for clients in US/Europe
- PHP Web Development for Content Management with WordPress