Cover Letter

Sundar R

Master of Science – Data Engineering

# Contact Information

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# Professional Summary

Highly skilled Python developer with extensive experience in designing and implementing cloud solutions on AWS. Proven expertise in leveraging a variety of AWS services, containerization, orchestration tools, and CI/CD pipeline management. Adept at Infrastructure as Code (IaC) practices and serverless architecture design. Strong analytical and troubleshooting abilities complemented by excellent communication skills.

# Technical Skills

* Programming Languages: Python
* Cloud Platforms: AWS (Lambda, S3, Step Functions, ECS, CloudFormation)
* Containerization: Docker
* Orchestration Tools: Kubernetes
* CI/CD Tools: Jenkins or equivalent
* Infrastructure as Code (IaC): Terraform, AWS CloudFormation
* Architectures: Serverless, Cloud-native
* Skills: Analytical and troubleshooting, Verbal and written communication

# Professional Experience

## AWS Solution Architect

Confidential – US Retail Account

[04/2023] – Present

* Designed and implemented cloud solutions using AWS services like Lambda, S3, Step Functions, ECS, and CloudFormation.
* Developed and managed containerized applications using Docker and Kubernetes.
* Built and maintained CI/CD pipelines using Jenkins or equivalent tools to streamline code deployment processes.
* Applied Infrastructure as Code (IaC) practices with Terraform and AWS CloudFormation to manage cloud resources efficiently.
* Architected and deployed scalable, serverless applications in the cloud.
* Collaborated with cross-functional teams to troubleshoot and resolve complex technical issues.
* Communicated project progress and technical details effectively to stakeholders.
* Proficient in building Data analysis using Python
  + Python :Data Essentials
  + Python : Importing Data ( file, CV, JSON)
  + Python: NumPy
  + Python : Pandas & Advanced Framework
  + Python : Cleaning Data
  + Python : Data Wrangling
  + Python: Exploratory Data Analysis
  + Python : Matlib

## ML Analyst

Dec 2021 – Apr 2023

A leading Data research firm

Unites States

* Developed Python applications and scripts to automate various business processes.
* Applied Data Mining with Python
  + Data Mining and Analytics Workflow
  + Evaluating a Data Mining Model
  + Mining Data from Text
  + Mining Data from images
  + Mining Data from Networks
  + Mining Data from Time Series
* Implemented cloud solutions on AWS, utilizing a range of services to enhance application performance and reliability.
* Contributed to the design and maintenance of CI/CD pipelines to support continuous integration and deployment.
* Participated in the development and deployment of containerized applications using Docker.
* Assisted in the design and implementation of serverless architectures and cloud-native applications.
* Provided technical support and troubleshooting for cloud-based applications.
* Documented technical processes and communicated effectively with team members and stakeholders.

## **Training Programs Conducted:**

## Machine learning Boot Camp - Fundamentals

Learning Styles and Algorithm Types

Platforms and Libraries

Regression

* Introduction to Regression Algorithms
* Linear Regression
* Polynomial Regression
* Lasso Regression
* Ridge Regression
* Perceptron Regression

Classification

* Classification Algorithms
* Logistic Regression
* Naive Bayes
* Support Vector Machines
* K Nearest Neighbours
* Decision Trees and Random Forests
* Neural Networks
* Convolutional Neural Networks
* Dimensionality Reduction
* Dimensionality Reduction
* Linear Discriminant Analysis
* Principal Component Analysis
* T Distributed Stochastic Neighbor Embedding

Clustering

* Clustering Algorithms
* K Means
* Gaussian Mixtures
* Hierarchical Clustering
* Affinity Propagation
* Understanding Other Types of ML Problems

## Demystifying Machine Learning Operations (MLOps)

## Productionalizing Data Pipelines with Apache Airflow 1

## Principles for Data Quality Measures