

VIGNESH K

software Engineer

CONTACT

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EDUCATION

Bachelor of Engineer
Sree sakthi engineering college
2014 - 2018

SKILLS

Scala Spark	● ● ● ● ●
Python	● ● ● ● ●
Elastic Map Reduce	● ● ● ● ●
Apache Airflow	● ● ● ● ●
AWS	● ● ● ● ●
React JS	● ● ● ● ●
PHP	● ● ● ● ●
Java Script	● ● ● ● ●
Flutter	● ● ● ● ●
HTML , CSS	● ● ● ● ●
Java	● ● ● ● ●
Angular	● ● ● ● ●

CERTIFICATIONS

AWS Certified Solutions Architect
Scala spark - Udemy
Flutter - Udemy
Python - Udemy

MY JOURNEY

SOFTWARE SUPPORT ENGINEER -II

AMAZON MUSIC I 2022 - PRESENT

Responsible for addressing software security risk and delivering payment reports to vendors through out global on every month with 99.89% accuracy and delivered **22 project which results savings of 89 engineers efforts and saved 42 million dollar** in the past one year.

Top 3 projects (Role : Software Support Engineer II)

- **GRC Compliance Manager** : When we made changes to Data or status of service through AWS console, we will receive a ticket to capture justification from the user, which leads 4hrs per ticket to locate the user and follow-up with user to capture justification, to avoid hassle I made website to make the changes and the changes will called by assuming role and justification for changes will be capture from user before commitment. This **saved Engineer 216 hrs per year** of an engineer efforts by avoiding manual task
- **OS auto patching** : Our team owned 12 service (1024 hosts) in AmazonMusic, we receive notification for each host if there any pending update in operating system. To address the risk we need to login the EC2 instance manually and run update command to address the risk. To avoid this manual task I created lambda function which update the host using SSM and prevent ticket, this leads to **save engineer efforts 3072 hrs per year and reduce 23 % of total incoming manual task**.
- **Customer Tickets** : We received request from vendor and other external team to generate the report as per their requirement, to reduce the spending time on customer ticket we implement TT bot to our resolver group which post analysis, based on ticket overview, **this saved 6hrs per ticket and resolved 93 customer tickets out of 146 tickets before SLA**.

SOFTWARE SUPPORT ENGINEER -I

AMAZON MUSIC I 2019 - 2022

Responsible for handling customer tickets and supporting tasks assigned by San Francisco Music team. I had implemented 15 automation projects other than my responsibilities, **which saved 3523 hrs of engineer efforts and 12.6 million dollar per year**.

Top 3 projects (Role : Software Support Engineer I)

- **AL2 Migration** : Earlier most of our service running with RedHatLinux, after release of AmazonLinux 2 our leadership decides to migrate AL2 os, I had represented our team and migrated our host from RedHatLinux to AmazonLinux 2 without any data loss, and service interruption to **1015 host** within one month.
- **S3 cost optimisation** : Our team storing tons of data year by year which includes unused data.Increase of data size leads to S3 billing cost, to reduce cost of S3 bucket I had derived data retention policy with approval of our leadership team and implemented S3 lifecycle policy. This deletes unused data automatically based on access pattern and delete unused data which **saved 10+ million billing in our S3 cost and reduce cost by 58%** of total bill.
- **Project sandwich** : we targeted to migrate our c/m/i 1, 2, 3 or 4 series capacity in IAD/PDX to power efficient current generation (6g/5/6i) instance types. I had changed **host configuration for 1024 host, also made code changes to 76 packages, 1000 + lines to prepare the service** for migration without any interruption

To know more about me and my work, please visit
my website : **vignesh.co.in**