karthick raja c

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EDUCATION

GCT

B.E,Production Engineering
2020-present Coimbatore
CGPA:6.1

LITTLE ANGELS HR.SEC SCHOOL

HSC
May 2020 | Namakkal,TN
Marks:363/600

SURABI HR.SEC SCHOOL

SSLC
May 2018| Namakkal,TN
Marks:399/500

SKILLS

- Shell Scripting(basic)
- AWS Services
- devops-Terraform,Jenkins,Git and Github (basics)
- VPC,Route-53,SG
- CCNA
- Linux
- cloud watch,RDS,S3
- Docker(basics)
- Kubernetes(basics)

CERTIFICATES

- cloud architect AWS
- git basics on great learnings
- jenkins basics on great learnings

WORK EXPERIENCE

KAYA TECHNOLOGY

INTERN
may 2022 - June 2022| Coimbatore,TN

- Designed and simulated a conveyor belt system for material handling using SolidWorks.
- Built a working model of a scissor lift for small-scale material lifting.
- Developed a semi-automated assembly line prototype using Arduino/PLC for small-scale production.
- Presented the project at a college-level competition and secured [rank/achievement].

PROJECT

BACKUP AND RESTORE WITH AWS S3 AND GALCIER

UNDERGRADE RESEARCHER
DEC 2024 | Nammakal

- Designed and implemented a robust data backup strategy leveraging AWS S3 for high-availability storage and Glacier for cost-effective archival.
- Automated daily and incremental backups of critical manufacturing data, ensuring zero data loss during system updates or failures. Configured lifecycle policies in AWS S3 to optimize storage costs by transitioning older data to Glacier after predefined intervals.
- Deployed monitoring tools like AWS CloudWatch to track backup performance and ensure timely restores when needed.
- Tested and validated disaster recovery plans by restoring data from AWS Glacier, achieving a recovery time objective (RTO) of less than 6 hours.

LOG MONITORING WITH CLOUDWATCH AND SNS

|Undergraduate Researcher
Dec 2024 | Namakkal

- Implemented AWS CloudWatch to monitor system logs, backup operations, and key metrics in real time for the backup and restore system
- Set up CloudWatch Alarms to trigger notifications for anomalous activities, ensuring rapid response to potential issues
- Integrated AWS SNS (Simple Notification Service) to send email and SMS alerts to the operations team, reducing incident response time by 80 percentage
- Utilized CloudWatch Metrics to track backup success rates, storage consumption, and restore times, providing actionable insights to stakeholders.