

# Abid Karim

Site Reliability/DevOps Engineer / Node.js

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## Profile

An experienced Cloud operations engineer, Linux systems engineer. Significant experience in development, Nodejs, React.js, webRTC, deployments, automation, monitoring, and information security, Advocates, and practice's infrastructure as code, eliciting useful application metrics, building fault-tolerance systems. Building sustainable server and server-less utilities and automated workflows, design and developing automated scripts for pro-active monitoring of distributed applications.

Specialties: Building sustainable server and serverless utilities, design and developing automated scripts for pro-active monitoring of distributed applications, OS.

## Strengths & Skills

### Full stack developer

- ✓ Excellent Knowledge Nodejs,Express.Js, reactjs, javascript
- ✓ webRtc
- ✓ sass application

### Monitoring and Logging

- ✓ Excellent Knowledge about File Systems
- ✓ Process Monitoring
- ✓ Automation

### Love for Terminal

- ✓ Network
- ✓ Vim/Nano
- ✓ Text manipulation
- ✓ Bash scripts
- ✓ System performance

### Cloud Providers

- ✓ AWS
- ✓ Azure
- ✓ Google Cloud Platform
- ✓ Digital Ocean

### Distributed Systems Platform

- ✓ Service-Level Indicators (SLI)
- ✓ Service-Level Objectives (SLO)

### Operating Systems

- ✓ Linux
- ✓ UNIX

### Cluster Management

- ✓ EKS
- ✓ ECS
- ✓ Docker Swarm
- ✓ Kubernetes
- ✓ Terraform

### Networking

- ✓ SSL
- ✓ SSH
- ✓ Networking
- ✓ TLS
- ✓ Setting up Reverse Proxy (Nginx/etc)
- ✓ Setting up load balancer (Nginx/AWS/etc)
- ✓ HTTPS

### Web Servers

- ✓ Apache
- ✓ Nginx
- ✓ IIS

### Database

- ✓ SPROC
- ✓ SQL
- ✓ Triggers
- ✓ Mysql
- ✓ Mongo

### CICD

- ✓ ECR
- ✓ Docker
- ✓ Jenkins

### Automation

- ✓ Selenium
- ✓ SFTP
- ✓ AWS Step functions and State machine
- ✓ Ansible
- ✓ Chef
- ✓ AWS Cloud Formation
- ✓ Terraform

### Runtimes/Languages

- ✓ NodeJs
- ✓ React.js
- ✓ Python

### Production Web App

- ✓ Micro-Services based App Architecture
- ✓ Deployments
- ✓ Disaster Recovery Plan
- ✓ Backups Management

### Other

- ✓ Jira configuration/Developer

## Education

BS in Computer Science,  
2022 Karakorum International University Islamabad, Gilgit Campus

## Experience (2.6 Years)

Site Reliability/DevOps Engineer	Oct 2019 -
Cloudlem Pvt. Ltd	Islamabad, Pakistan
<ul style="list-style-type: none"><li>. Cloudlem company codes, automated security systems and cut risk of breaches by 60%.</li><li>. Designed new architectures within the AWS platform for a lift and shift style moves as the first stage cloud solutions.</li><li>. Built services through a combination of terraform to provision infrastructure, Packer with AWS provisioner.</li><li>. Reduce monthly cost.</li></ul>	
Full Stack web developer	Feb 2019 - Sept 2019
<ul style="list-style-type: none"><li>. setup and maintain 99% uptime of a network of 20+ Unix servers.</li><li>. Used to jenkins to automate build and deployment that reduced human error and sped up production processes.</li><li>. develop and integrate third party API'S.</li><li>. managed local deployments in kubernetes, creating local cluster and application deployment into containers/kubes</li></ul>	

## Projects

Event Service
Tools: Step functions, S3, Lambda, Mysql, SPROC, Cloud-watch event rules, Cloud-watch logs, IAM, Build Scripts.
At Techtronix, We have various micro Applications, my responsibility was to design an infrastructure for event service over AWS, which will be used to fetch different types of sports events from multiple providers.

SFTP Data Intake Automation
Techtronix Corp. Pvt. Ltd
Tools: S3, ECS, Lambda, Mysql, SPROC, Cloud-watch event rules, Cloud-watch logs, IAM, Build Scripts, NodeJS.
At Techtronix, we have a highly reputed customer base, customers as Automobiles companies, communication companies, and Banking, etc. Our customer base gets increasing and within a customer company, their user data changes are fast-paced, thus we offered our customers an SFTP service to provide their profile files at schedules, which will get processed within seconds as soon as the file drops at our server. For this our SRE team have designed and developed our DATA intake Automation from our FTP server, as soon our customer gets registered we onboard their user base in our customer instance in at our Application platform ().
Architecture designed by us have ARN rule monitoring the activity over our SFTP machine at ECS cluster, as soon as the file gets dropped, cloud-watch event rule gets triggered by alarm, and in turns triggers our serverless Lambda function, which first tests the file authority/type/authenticity/scope, and provides our customer and stakeholder a live feedback of the file current status(processing/accepted/operational/rejected), if file is accepted, Our Serverless function process it and calls upon our RDS of MYSQL to run a SPROC to update records at our Database, after successful execution system reports of the final status of processed file with full details over email, and over webhooks to our internal channel, It is fun working with serverless.

## Industries

- Information Technology