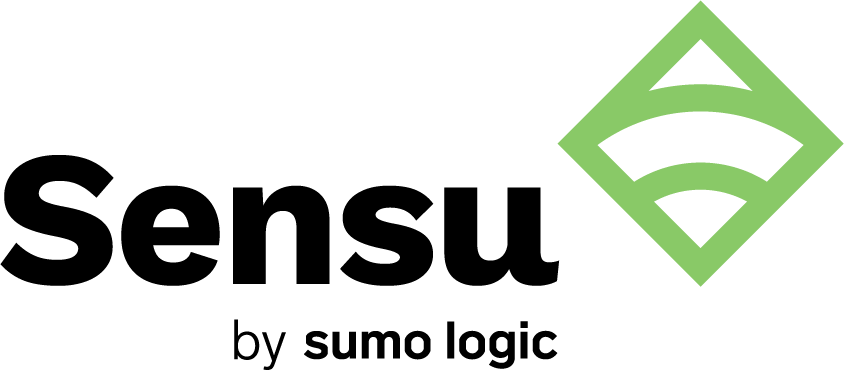
**Riyas Rawther**

**DevOps Engineer**

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Load Testing NodeJS, .Net MVC web, PHP applications with Locust, JMeter and RedLine13. Optimized .Net MVC web-based applications on AWS Autoscaling for quicker deployments using Warm Pool, SysPrep, end-to-end encryption.

**Load Testing and Optimization**



Dockerization of Yii2, Laravel, NodeJs applications.



Self-Managed GitLab installation, deployments of NodJS, Laravel, YII2 using GitLab CI/CD.



CloudEndure Disaster Recovery, IAM, EC2, RDS, S3, CloudFront, Load Balancer with end-to-end SSL, Target Groups, Auto Scaling, Amazon Polly, Lambda and API Gateway, BeanStalk for NodeJS and .Net MVC.



**SKILLS**

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**www.realtech.dev**

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**If you can’t measure it, you can’t improve it.**

*Skilled DevOps Engineer with 13+ years of experience managing infrastructure for applications with millions of users. I focused on scalability and performance and have helped save over $200K by reducing infrastructure costs while improving performance.*

**Work Experience**

**AlignMinds Technologies Private Limited & PegasusOne**

*October 2020 – Present, Cochin, India*

**Senior Technology Manager**

* Built, maintained, and scaled infrastructure for production, QA, and dev environments for a web and mobile apps that grew to 1.5 million monthly users.
* Experience on deploying NodeJS, Angular, PHP based (Moodle, Yii2, Laravel) applications using GitLab DevOps tools.
* Owned production alerts using Sensu, PagerDuty, SquadCast and acted as the point of contact for all infrastructure incidents.
* Implemented and maintained Continuous Integration/Continuous Delivery systems leading to an improvement in the time to ship new feature releases by 60%.
* Worked on and supports automated builds, deployments, validations, and configurations in our public AWS environment.
* Develop automation processes to enable teams to deploy, manage, configure, scale and monitor their applications through the use of tooling or scripting reducing the time to get features in production by 36%
* Fostered a culture of robust documentation as it pertained to release processes and CI/CD.
* Educated project managers, developers on various technology platform to optimize, secure, and releasing apps.
* Investigate and resolve technical issues.
* Improved the SEO of the official website to 40% by adopting and implementing SEO best practices.
* Worked alongside project management teams to successfully monitor progress and implementation of initiatives.
* Mentor and train other engineers throughout the company and seek to continually improve processes companywide.
* Managed 100s of Windows and Linux systems.
* Integrated Slack to provide notification on various stages of git operations to the developers and project managers.
* Worked on complex email migration from Exchange to Google Workspace containing 800+ users and terabytes of data for a company across Africa, Europe, and United States.
* Worked on migration of Moodle, WordPress sites to cloud with LEMP stack.
* Dockerized complex and outdated project stacks to work on latest operating system and help the developers to work on multiple projects at same time.
* Implemented security measures on office networks, enabled 2FA on GitLab users, emails, Bastillion servers.
* Introduced and guided developers to use serverless platform on NodeJS using serverless.com to avoid setting up servers for production, dev and staging environments and to save costs.
* Providing DevOps support for Windows, Linux and Serverless based projects.

Monitoring 100s of Linux and Windows servers using Sensu, PagerDuty, SquadCast e.t.c. with improved alert fatigue. The incidents are managed with PagerDuty and configured to give alerts by phone calls.

▶Configure email compliance and implement measures to protect organization from spam, spoofing, phishing, and malware attacks. ▶ SPF, DKIM, DMARC, MX ▶Experience on managing 900+ users.

**Projects**

*AlignMinds is partnered with PegasusOne, a software development company located at Fullerton, CA. I have been working as a DevOps engineer and responsible for all cloud infrastructure.*

1. Educadium

Educadium is a learning and digital media company that developed EasyCampus, the popular cloud-hosted learning management platform used by thousands of non-profits, trade associations, and corporate trainers around the world.

* Migration of on premises Moodle LMS to AWS for scalability and performance.
* Advice developers to optimize the website to increase performance and implement caching mechanism.
* Optimize the LEMP stack for optimum performance and availability.
* Configure automatic backups of Databases using bash scripts and Amazon Data Lifecycle Manager.
* Cost optimization using AWS Cost Explorer, rightsizing by identifying EC2 instances with low-utilization, Identifying Amazon EBS volumes with low-utilization and reduce cost by snapshotting then deleting them, Analysing Amazon S3 usage and reduce cost by leveraging lower cost storage tiers, Identifying Amazon RDS instances with low utilization and reduce cost by stopping RDS, reviewing networking and reduce costs by deleting idle load balancers, budget alerts etc.
* Built S3 buckets and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on AWS.
* Amazon IAM service enabled to grant permissions and resources to users. Managed roles and permissions of users with the help of AWS IAM.
* Initiating alarms by replacing CloudWatch with Sensu and PagerDuty service for monitoring the server's performance, CPU Utilization, disk usage etc. to take recommended actions for better performance.
* Configured AWS Multi Factor Authentication in IAM to implement 2 step authentication of user's access using Google Authenticator and AWS Virtual MFA.
* Included security groups, network ACLs, Internet Gateways, and Elastic IPs to ensure a safe area for organization in AWS public cloud.
* Coordinate/assist developers with establishing and applying appropriate branching, labelling /naming conventions using GIT source control.

1. PrimaHealth Credit

"PrimaHealth Credit is a fintech company building the future of patient finance. We are leading the industry with a single-application financing platform that allows healthcare providers to serve patients across the credit spectrum.

* Configure Windows servers for hosting ASP.NET MVC webservers, SQL, VPN, JumpBox servers.
* Configure IAM permissions for developers and for other services.
* Building and testing AWS EC2 autoscaling with WarmPool for quicker deployments and for scalability.
* Provide load testing environment to test the staging and production environments using millions of fake users.
* Test server creation using RedLine13, JMeter and Locust.
* Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using Git.
* Initiating alarms by replacing CloudWatch with Sensu and PagerDuty service for monitoring the server's performance, CPU Utilization, disk usage etc. to take recommended actions for better performance.
* Optimizing EBS volume by updating IOPS and throughput.
* Building and optimizing SQL server for HA based on best practices.
  + Provision of adequate disk space.
  + Proper allocation unit size for drive.
  + Benchmark drives with diskspd.
  + Separate physical disk pools for database data and log files.
  + Separate physical disk pools for tempdb data and log files.
  + Configure backups to local, s3 and glacier.
* Resolve any infrastructure related issues or new requirements for the developers.
* Create VPN configuration for the users to access the servers through Jumpbox.
* Configuring NAT to give internet access to an Amazon VPC-connected Lambda functions.
* IIS Configuration, SSL installation for staging servers, removing deprecated TLS e.t.c.
* Configuring endpoint security using F-Secure Elements Endpoint Protection.
* Discovering vulnerabilities using F-Secure Elements Vulnerability Management.
* Integrating Retrace with DotNet MVC application to view the error logs, SQL Query Performance e.t.c

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1. Swun Math, LLC Cypress, CA 90630, United States

Swun Math is building a custom LMS using ASP .NET MVC. I am responsible for the Cloud Infrastructure, migrating apps to cloud, optimize and secure the environment.

* Work closely with developers to build webservers on AWS using Auto Scaling, custom AMI, end to end SSL termination.
* Secure outdated WordPress with Sucuri to protect the server from malware, denial of service attack, SQL injection and block completely some countries which is rated #1 for spamming and hacking activities.
* Monitoring servers using Sensu and PagerDuty.
* LoadTesting and optimization of Webservers using JMeter and RedLine13.
* Implementation of CI/CD using Elastic Beanstalk.
* Support developers on configuring changes on the Master Image (Golden Image).
* Configure the MS SQL server for optimum performance and security.

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**Freelancer - IT Consultant**

*June 2020 – October 2020*

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* Undertaken WordPress site migration to cloud and optimization works.
* Developed a video streaming portal that play video from torrents with sub-titles.