

Madushan Nishantha

Site Reliability Engineer

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Summary

Excellent skills in building, maintaining, and troubleshooting Linux-based cloud application stacks on cloud services (such as Google compute/container engine, Amazon web services, Azure, or Heroku), and using technologies (including node.js/es6/babel, meteor.js, golang, docker, kubernetes, and puppet).

Hands-on software development experience includes building deployment automation tools such as meteor-up, or creating compiler plugin babel-plugin-react-docgen.

Professional Experiences

03/2018 – **KeenEye Solutions – Senior Site Reliability Engineer**
Present

Development Kubernetes Cluster

Provision and maintain kubernetes cluster used for testing development stage web services from several different projects using AWS cloudformation and kops. And configured CI/CD using AWS codepipeline

CI/CD pipelines and cloud infrastructure for multiple projects

Design and implement CI/CD pipelines and cloud infrastructure using AWS codepipeline, terraform, AWS S3, and AWS ECS for proximatech and shopflow

01/2017 – 02/2018 **System Engineer at Pearson Lanka. – System Administrator, Platform OS team**

Linux server provisioning and orchestration

RHEL, CentOS, and Ubuntu provisioning and orchestration using tools like puppet, RedHat satellite and the open source alternative The Foreman, on virtualization platforms like VMware ESXI or VCenter.

Task automation using Bladelogic server automation toolkit

Automation and execution of routine tasks across thousands of Pearson estate Linux servers.

Monthly patching operations

Contributing to the Linux global monthly patching operations across Pearson estate including troubleshooting and remediation of any issues occurs while patching Linux distributions like RHEL, CentOS or Ubuntu.

Incident/Change management with ServiceNow

Interacting daily with ITIL compatible ServiceNow platform to resolve and document any Linux related incident or change occur in Pearson server estate.

01/2017 **System Administrator at Pragma Labs(Stealth mode startup) – Infrastructure and automation**
– 01/2018

[Pragma CMS\(pragma.build\)](#)

Building the infrastructure for Pragma CMS backend including build and deploy automation using tools like aws cloudformation, aws codebuild, and Amazon RDS. And setting up saleable web services for the application stack using docker and kubernetes.

[page.rest](#)

Setting up the backend docker web services on a kubernetes cluster for the page.rest HTTP API

10/2015 **System administrator at Kadir, Inc. – DevOps and system reliability engineering**
– 01/2017

[Storybook hub\(storybook.js.org/\)](#)

Development and deploy automation of React Storybook build and hosting service Storybook Hub on top of docker and kubernetes

[Improving organizational security at Kadir\(goo.gl/YZEJHI\)](#)

Designing and implementing a system to centralize back-end (aws/gcloud/etc...) authentication methods (ssh/passwords/etc...) used by Kadir's various projects.

[Meteor Up\(git.io/vXEKA\)](#)

The production quality Meteor deployment tool, Meteor Up, which enables developers to deploy their meteor applications to custom Linux servers on top of docker. One of the maintainers of this open-source project.

[Storybook ping receiver\(git.io/vXE9L\)](#)

A proxy for react storybook npm package usage meta-data collection. Behind the scenes, it streams analytics data directly to Google BigQuery and provides a GraphQL API to query and interact with the data for its react storybook client

[Babel Plugin React Docgen\(git.io/vXE6k\)](#)

Babeljs javascript transpiler plugin to inject proptype documents in to React component classes, making use of the babeljs plugin API and node.js/ES6

10/2014 **Short-term technical training at Atrenta Lanka (PVT) LTD – Software engineering intern at GUI team**
– 03/2015

[SpyGlass Qt GUI test automation using Squish framework](#)

Automated code cleanup for the Qt Squish GUI testing regressions.

Education

2011–2015 **Bachelor of Engineering (B.Sc.), University of Peradeniya, Sri Lanka.**
Computer Engineering, Graduate

Other Projects

[SDN testbed for research and education – University Final Year Project](#)

Low-cost software defined networking testbed built using raspberry pi devices for research and undergraduate work.

[Virtual memory management system – OS161](#)

Designing and implementing a virtual memory management system for educational operating system OS161.

[Porting Firefox OS \(B2G\) to HTC Desire HD](#)

Solo project of porting Firefox OS, aka Boot to Gecko (B2G), to HTC Desire HD smartphone.

[Contributions to Firefox for android – fenek](#)

Code cleanups and improvements to Firefox for android

[User level thread library – C](#)

Designing and implementing of context switching library for user level C programs.

Interests

- Operating systems
- Virtualization
- Network security
- Hiking
- Embedded designing
- Programming languages
- Reverse engineering
- Creative writing