

Madushan Nishantha

DevOps 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 ec2/lambda, azure, or heroku, using technologies including node.js/es6/babel, meteor.js, golang, docker, and kubernetes.

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

Professional Experiences

10/2015 – Present **System administrator at Kadira inc. – DevOps and system reliability engineering**

[Storybook hub\(hub.getstorybook.io\)](https://hub.getstorybook.io)

Developments and deploy automation of react storybook build and hosting service storybook hub.

[Improving organizational security at Kadira\(goo.gl/YZEJHI\)](https://goo.gl/YZEJHI)

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

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

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

[Babel Plugin React Docgen\(git.io/vXE6k\)](https://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 – 03/2015 **Short term technical training at Atrenta Lanka (PVT) LTD – Software engineering intern at GUI team**

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

Created a program to filter out additional code generated while the initial test generation to make test replay work and integrating Qt GUI testing into the automated regression workflow.

[SpyGlass Qt GUI bug fixes](#)

Contributions to the new SpyGlass Qt GUI using Qt framework and C++ and number of Coverity static code analyzer issue resolution on the codebase.

Technical skills

Cloud architecture, deploy automation, containerization, and virtualization
— AWS ec2/lambda, gcloud(gce, gke), heroku, docker, kubernetes, VMware
Database administration
— MongoDB
Software defined networking
— Open vSwitch, OpenDaylight

Programming skills

Advanced JavaScript/ES6, C/C++, Python
Intermediate Golang, Rust, Haskell, Common Lisp, Antlr, Perl, Assembly, Java

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 researches and undergraduates.

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