
SANDEEPA HARIHARA BHAT

Software Engineer – III (Golang Backend Engineer)

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EXPERIENCE

Walmart Labs, Bangalore - *Software Engineer* JULY 2019 - PRESENT

Software Engineer - III

Part of the scale team at Walmart that develops custom Load balancers.

- Developed features around software based Load balancer in Go.
- Distributed software Load balancer which successfully handled hits to the level of 44k/min during the last holidays.
- Token bucket sampling based sampling of HTTP Logs which is of the magnitude of several TBs in real-time.
- Worked on monitoring and alerting using Prometheus and Grafana.
- Handle end-to-end ownership of the modules developed including deployment using Salt stack.

CISCO , Bangalore - *Software Engineer* JAN 2018 - JULY 2019

Software Engineer - III

Launched a new product from scratch in Cisco (Cisco Cost Optimizer).

- Completed AWS Solutions Architect Associate certification.
- Designed and implemented a multi-cloud metadata sync service and a task scheduler to manage cron jobs in Golang.
- Working on Golang, PostgreSQL and MongoDB.
- Designed and implemented a cron job manager using channels, go routines and scheduler - worker model in Golang.
- Kubernetes driven development where-in code is written and tested against a cluster in AWS EKS or GKE.
- Improved understanding of Kubernetes and it's units like Pod, Service, Deployment, CronJob, Job, etc and using Helm to manage Kubernetes.

Cmpute.io (Acquired by CISCO), Bengaluru - *Software Engineer* JAN 2017 - DEC 2017

Software Developer

Cmpute.io is a cloud management platform which automates computation in AWS across multiple availability zones with predefined apps and also supports scheduling of individual AWS instances.

Cmpute.io got acquired by CISCO in December 2017.

- Technologies - Angular 2, TypeScript, JavaScript, REST API, Golang, HTML5, CSS, AWS, Bootstrap
- Built a web App in a month and a half using Angular 2.

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- Worked on APIs using Golang.
 - Designed and developed a notification service in Golang.
 - Implemented multiple features related to AWS apps.
 - Developed charts using Charts.js to show metric analysis using charts like pie, doughnut, line and bar charts.

Hewlett Packard Enterprise R&D, Bengaluru - *Software Engineer* **AUG 2015 - JAN 2017**

Virtual Connect Product Development

Virtual Connect is a switch-like device which is a part of a blade server environment which virtualizes NICs in a server while enabling easy provisioning of servers along with the reduction in cabling complexity.

- Technologies - C/C++, Linux
- Built Audit Logging feature which uses the rsyslog of linux kernel to effectively log all important events in the system along with support for logging on system bootup.

Sonus Networks, Bengaluru - *Software Intern*

JUNE 2014 - AUG 2014

Technology Used:

- Perl Scripting

Created a FSM Call Flow Diagram by analyzing SBC Debug Logs to help understand complex FSM of different modules running on the SBX system and easily identify the point of failure.

HOBBY PROJECTS

- **EC2Sync** :- A tool to automate file transfer from S3 to an EC2 instance using AWS Lambda.
Stack :-
Golang, AWS Lambda, EC2, AWS
- **goSessionManagement** :-
Implementation of session management to understand Golang usage in depth.
Stack :-
Golang, PostgreSQL

EDUCATION

The National Institute of Engineering, Mysore - *B.E , Computer Science* 2011 - 2015

CGPA - 9.123

ACHIEVEMENTS

- Achieved 90% placements for my batch as a Placement Coordinator (PC)
- Served as Class Representative (CR) in the college.