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Blog | github | gitlab

About

I am a Software Developer having 4+ years of experience, currently working with **Go-Jek Tech** as Product Engineer in the kernel team**.** I mostly work with the following:

- <u>Backend</u>: Golang, Python(flask/django/tornado), Erlang, Nodejs, PHP
- <u>DevOps</u>: Docker, Kubernetes and GitlabCI
- <u>Frontend</u>: Angular, Javascript, Typescript, flex-layout, jQuery, HTML, css.
- <u>Others</u>: C, Kotlin, Git and gitflow, vim, tmux, shell

But I'm also open to working in other languages, quickly picking up new things.

Experience

February 2020 - Present
Go-Jek Tech, Bangalore – `Product Engineer`

This is my first role which is more aligned to the infra/devops side of things. I expect to gain more hands on knowledge and experience around production kubernetes clusters, maintaining and programmable aspects of the same.

1. Worked on IaaC with terraform and wrote a wrapper service that allows to spin up gke clusters with given configuration.
2. Worked on cluster upgrades and writing automations around the same with <u>google cloud Golang</u> bindings and `client-go`. This involved aggregating lot of manual steps lying around in runbooks to come under a single executable system
3. Helped maintain and analyze our Istio based service mesh multicluster architecture and suggested improvements to the same to achieve better control plane HA and scenarios like disaster recovery.

January 2019 - February 2020
Go-MMT, Bangalore – `Senior Backend Engineer I`
1. Worked on optimizing a Bloom Filter implementation which used murmur3.
2. Worked on building multi-stage concurrency pipelines to optimize our workers relying on 3rd-party calls.
3. Worked on a controller and monitoring dashboard written in Angular for a real time service used for our IPL campaign.
4. Wrote a microservice from scratch in Go which uses SQS, mongodb and an external service api.

April 2018 - December 2018
Reserve Bank Information Technology, Navi Mumbai – `Full Stack Developer`
1. Worked on developing an analyzer tool for DMARC compliance of email domains. The software was developed as an on-premise solution packaged in docker containers - with the backend written in python/flask and frontend in Angular 6. It provides the following features:

- An admin setup screen to configure the SMTP/IMAP or Exchange account credentials of the RUA email addresses of the organisation.
- Based on the credentials provided above, it fetches the RUF reports (in XML) and parses out these reports to show in a dashboard.
- A detailed view to list out individual failures.
- The entire thing was packaged in our docker cluster and can be deployed as an on-premise solution

July 2016 - November 2017

Wingify Software Pvt. Ltd. , Pune – `Full Stack Developer`

1. Worked on developing a module for real time message exchange over websockets written in python-tornado. The module served as the backend for the chat application for the android app and the angular web-app.
2. Integrated platform events like enquiry posting, lead assignment etc. with the Zoho CRM APIs.
3. Ported the platform from a monolithic vagrant environment to a docker-based microservices architecture. Accomplishments
   - This enabled a consistent development environment on all developer machines along with a containerized production environment.
   - Used Gitlab's CI to write CI/CD tasks that enabled automatic container building, automated tests and deployments to our AWS instances.

June 2015 - August 2015

Codemancers Technologies Pvt. Ltd. , Bangalore – `Software Intern`

Worked primarily on the [RbKit - Ruby Profiler](#) project. Most of the work was focused on Ruby's C API, Ruby, C++ (Qt Frontend).

Accomplishments
- Got introduced to the Ruby Virtual Machine's [Tracepoints API](#)
- Hands on experience with good amount of C++11 code
- Wrote a lot of MVC based client-side code in Qt

Education

June 2012 - June 2016

Lakshmi Narain College of Technology, Bhopal – `B.E. Computer Science`

Blogs / Projects

I maintain a blog at [ishankhare.dev](#)

This blog is a project is a project in itself that I've recently migrated from a single $5 compute box to a k3s based 3-node kubernetes cluster. The deploy mechanism follows CI/CD & GitOps practices setup by me using gitlab-ci. If interested I can provide read access to the corresponding repo. Planning to do a vlog series targeted for devs who would like to understand the whole SDLC with kubernetes and GitOps.