

# Ishan Khare

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## About

I am a FullStack Developer having 2 years of experience, currently working with **Reserve Bank Information Tech**. I mostly work with the following:

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

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

## Experience

April 2018 - Present

### **Reserve Bank Information Technology, Navi Mumbai - Full Stack Developer**

1. Worked on developing an analyzer tool for DMARC compliance of email domains. The software is 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.

#### *Accomplishments*

- The system was capable of sending about 10,000 messages/sec. (the last time we looked at metrics).
- The web app was written with angular2 in Typescript and UI was using bootstrap.
- Made the angular code isomorphic (Angular Universal)

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.
4. Migrated a monolithic backend written in yii/laravel into microservices based architecture using Django/rest-framework and Django-channels. This involved:
    - Migrating the existing user models and merging with Django's User model.
    - The above was done so as to capitalize on the advantages offered by Django's inbuilt Authentication and Authorization framework.

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
- In addition to the above, I also got hands on experience with good amount of shell scripting and setting up tools like Vim, Tmux and oh-my-zsh.
- Configured all my configuration files for above tools and wrote a python script to automatically set-up my environment on any machine.

## Education

June 2012 - June 2016

### **Lakshmi Narain College of Technology, Bhopal - B. E.**

## Projects

**Interpreter in Go** - [github.com/ishankhare07/interpreter](https://github.com/ishankhare07/interpreter)

**Rest Framework in Kotlin (WIP)** -

[github.com/ishankhare07/kotlin-web-server/tree/feature/dynamic-routing](https://github.com/ishankhare07/kotlin-web-server/tree/feature/dynamic-routing)

**Snake game in HTML5 canvas and Object Oriented Javascript** - [github.com/ishankhare07/snake](https://github.com/ishankhare07/snake)

**Python based IDE** - [github.com/ishankhare07/multi-language-ide](https://github.com/ishankhare07/multi-language-ide)

**imapfw(formerly offline imap)** - <http://imapfw.offlineimap.org/2016/03/31/intro-to-git-rebase/>