# Bharghava Varun Ayada

**Software Development Engineer**

Bangalore, India
varun@ayada.dev
https://ayada.me/

## EXPERIENCE

### Software Development Engineer @ Imgur Inc, Bangalore
**Jul 2018 - Present**

Image sharing website (https://imgur.com): One of the most visited sites https://www.alexa.com/siteinfo/imgur.com
  - ➢ Architected and implemented view counts service that handles 30k RPS traffic
  - ➢ Architected and implemented the new comments service with comments threading, pagination, etc.
  - ➢ Implemented media service (CRUD) for image/video
  - ➢ Build/manage/improve kubernetes infrastructure
  - ➢ Built/deployed custom Golang vanity server and Godoc server

**Skills**: Golang, PHP, Kubernetes, Git, Redis, Memcache, MariaDB, Go-Micro, Jaeger, Docker, GRPC, Protobuf

### Sr. DevOps Engineer @ Imgur Inc, Bangalore
**Jul 2016 - Jun 2018**

Image sharing website (https://imgur.com): One of the most visited sites https://www.alexa.com/siteinfo/imgur.com
  - ➢ GraphicsMagick Integration on dynamic thumbnail generation microservice
  - ➢ Contributed to Image uploader - https://github.com/Imgur/mandible
  - ➢ JPEGMini integration for image and thumbnails (image compression)
  - ➢ Setup CI/CD using Buildbot, Ansible, Chef
  - ➢ Integrated Sentry (https://sentry.io/)

**Skills**: AWS, Kubernetes, Git, Buildbot, Chef, Ansible, Datadog, Redis, Memcache, RabbitMQ, MariaDB, ELK, HAProxy, Nginx, Fastly, Terraform, Packer, Vault, Consul, PHP, Golang

### DevOps Engineer @ Yahoo SDC, Bangalore
**Jul 2011 - Jun 2016**

Worked for the Video Platform team that managed video transcoding service and content delivery network
  - ➢ Supported launch of a Hadoop MapReduce based video transcoding service
  - ➢ Built various dashboards for the video transcoding service by crunching data on grid using Hadoop MapReduce
  - ➢ Supported Flickr May 2013 launch when Yahoo increased storage capacity per user to 1 TB. This increased video transcoding requests by almost 8 times
  - ➢ Implemented a highly scalable and elastic video transcoding platform on OpenStack. A paper submitted on this idea was selected for presentation at **Yahoo TechPulse 2015 conference in Santa Clara convention center**, California
  - ➢ Implemented an AWS based video transcoding service that automatically switched to AWS when our in-house transcoding service is about to run out of compute resources
  - ➢ Supported multiple live-events like the Michael Jackson funeral, the royal wedding, first ever free live stream of NFL game between Buffalo Bills and the Jacksonville Jaguars, and many other live events
  - ➢ Setup Splunk infrastructure for centralized log collection and indexing on hundreds of servers that hosted the software for Video Transcoding and Content Delivery Network
  - ➢ **Excellence Award** for my performance in 2015 placed me in top 10% of the company at Yahoo
  - ➢ **U Rock Award** for seeing the bigger picture and supporting Flickr "May Launch" successfully in Q2 2013 at Yahoo

**Skills**: Python, Java, Chef, Hadoop, Git, Jenkins, AWS, Openstack, FFMpeg, Apache Traffic Server, MySQL

## EDUCATION

### BE, Computer Science (CGPA: 9.19/10) @ MS Ramaiah Institute of Technology, Bangalore
**Jul 2007 - Jun 2011**

**Coursework**: Algorithms & Data Structures, Operating System, Networks, Artificial Intelligence, Compiler Design, Distributed Systems, DBMS

## PROJECTS & PUBLICATIONS

**MapReduce Based Information Retrieval Algorithms for Efficient Ranking of Webpages**

*International Journal of Information Retrieval Research, IGI Publishing, October 2011*

Also presented this (http://dl.acm.org/citation.cfm?id=2439871) paper at **ADCONS'** 11, National Institute of Technology Karnataka, Surathkal in December 2011

**TechPulse 2015 - Yahoo's Annual Technical Conference**

*Yahoo - Santa Clara Convention Center, California, US, December 2015*

Presented a paper on a scalable and elastic video transcoding platform on Openstack

**Cryptowatch**
https://github.com/abvarun226/cryptowatch
A simple webapp to display realtime and historical cryptocurrency price using Alphavantage API
<u>Utilized:</u> Python, Flask, SQLAlchemy, PostgreSQL, Docker

## SKILLS

*Proficient*: Golang, Python, Linux, Git, SQL, AWS, Kubernetes, GRPC, MariaDB/Redis/Memcache/DynamoDB, BuildBot, Chef/Ansible/Terraform/Packer
*Familiar*: Java, NodeJs, PHP, Openstack, ELK, Varnish