

# Bharghava Varun Ayada

## Software Development Engineer

Bangalore, India  
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<https://ayada.me/>

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### EXPERIENCE

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#### Software Development Engineer @ Imgur Inc, Bangalore (remote)

Jul 2018 - Present

Image sharing website (<https://imgur.com>): One of the most visited sites <https://www.alexas.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, Python, PHP, Kubernetes, Git, Redis, Memcache, MariaDB, Go-Micro, Jaeger, Docker, GRPC, Protobuf

#### Sr. DevOps Engineer @ Imgur Inc, Bangalore (remote)

Jul 2016 - Jun 2018

Image sharing website (<https://imgur.com>): One of the most visited sites <https://www.alexas.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:** Golang, Python, AWS, Kubernetes, Git, Buildbot, Chef, Ansible, Datadog, Redis, Memcache, RabbitMQ, MariaDB, ELK, HAProxy, Nginx, Fastly, Terraform, Packer, Vault, Consul

#### 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

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### EDUCATION

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#### 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

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### PROJECTS & PUBLICATIONS

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#### 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

**Utilized:** Python, Flask, SQLAlchemy, PostgreSQL, Docker

### **SKILLS**

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*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