Tushar Kant Verma

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GitHub:
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Social Networking & Youtube:
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https://www.facebook.com/tusshar.kant

https://www.youtube.com/channel/UCG1orLHH-gWXaI4jqMhbCRw
google.com/+TusharKantVerma1991

SUMMARY

An enthusiastic & passionate Web/Cloud (DevOps) development professional with 7+ years (+1 more as part time .Net Trainer) experience. Well suited for **Individual-Contributor** roles, plus a good **team player**. Software Engineer who excels at analyzing, prioritizing and completing tasks in a professional manner. Can code in any language but well versed with **PHP**. A good debugger who can understand the whole system by just going through lines of code. Check out my **GitHub** repo to know more on what else I can code!

SKILLS

- **Languages Known** - (OOPS) PHP, Python/GoLang/Elixir (Beginner), Bash, JavaScript, Node.JS-functional, HTML/CSS, SASS..
- **PHP Based CMS/CMF** - Drupal 7.
- **PHP Based Frameworks Known** - CakePHP, Symphony, Different Custom Implementations.
- **Front-end frameworks**: React
- **Other Frameworks**: Phoenix, Falcon
- **Other Open Source Technologies** - GraphQL, Apollo-Client, Absinthe, Redis, Consul/Zookeeper, Beanstalkd, OpenComponents, RabbitMQ, Docker, ELK, Node.Js, Elasticsearch, Solr Search, Varnish, OpenLDAP, CURL, Swagger, Git, etc.
- **Infrastructure as Code**: Docker-Compose, Terraform, AWS-Cloudformation, Chef.
- **Development Stacks** - Unix (Mac), Linux (Debian & RedHat Flavors) , Apache2/Nginx, MySQL/MariaDB, PHP5/7, XAMPP on Windows (Prefers linux!). Now containerize every other systems before working on them.
- **Development Tools** - Sublime Text, PhpStorm, PyCharm, IntelliJ, PhpMyAdmin/MySQL Workbench, Command line Access (Terminal on linux/Unix & Putty on windows), Drush, Artisan, Cake Bake, Mix, golang-boilerplate (for initial dir structure in GoLang), etc.
- **AWS Related** - ELB, EKS, EC2, ECS, Cloudfront CDN, S3, EFS, ElasticCache, Route53, RDS, VPC, IAM, etc.
- Others - **Web *scraping* - *using curl***, **Migration** (Done while in Chetu from *Django to Drupal, deployer/debugger of new Kayako platform).*

EXPERIENCE

Sr. Software Engineer, Chegg India Pvt Ltd.
Delhi, India — Oct 2016 - Present

Have been working over different FrontEnd related stuffs in here. Coded recommendation modules in Node.js published as open-component, for Q&A / TBS pages. Retention ++ & different optimization at different layer like Content Based Router (NGINX), etc.

Technologies Used:
- Technologies Used: PHP (custom framework), Node.JS, OpenComponents (https://github.com/opencomponents/oc) - complete functional code, HTML/CSS/JS, some JAVA (custom framework called Odin)
- AB-Testing and user acceptance.
- All recommended widgets for subscribers are built by me in last one year.
- Chegg's **SwaggerHub**: API written in Phoenix (Elixir based framework), kinda weekend project by Manager for me.

Developer/Architect, Multimedia-streaming site
Started working — Aug 2017 - Present

This is something which I had always wanted to built when started pursuing my engineering degree. This question had always chattered in my mind, how does big giants do the parsing and data sharing? Hence created to enhance my development|architectural skills. The complete architecture consists of individually scalable micro-services. Site's basic components includes:

- **Drupal 7**: Base for handling regular website functionalities
- **Beanstalkd**: Utilized by Drupal, for local jobs queuing
- **CmdStalkd (GoLang** broker for beanstalkd**)**: Custom integration with Drupal, **avoids long running PHP jobs** aka listeners.
- **ElasticSearch**: For searching assets on the site.
- **Falcon** (**Python** based web framework): Created API's to process uploaded video/assets. Includes transcoding, overlaying of promo image, sprite images (scrubber/gallery), thumbnails, preview video, etc. All processing is handled using **FFMpeg**.
- **Node.JS**: Public container for making req/responses over web-sockets. Realtime stuff!
- **Recommendations:** Utilized by drupal's computing module to execute a java based agent (open-sourced) which computes recommendation on a different cluster.
- **Docker**: Containerized Drupal, Falcon, ES, Node.js, Recommender services to scale independently.
- **AWS**: EC2, S3, CloudFront, RDS, Route53, EFS, etc. Right now there's very minimal traffic and development is ongoing (since pet project so works only on weekends) so skipped **ECS** and used **docker-compose** on multiple EC2 instance in different **AZs**.
- **Terraform**: Complete setup is terraformed. Here's an exmplet of ElasticSearch setup, terraformed & OpenSourced: https://github.com/tkant/elasticsearch-terraform-ecs

Platform Engineer, Kayako Pvt Ltd.
Gurgaon, Haryana — May 2015 - Sept 2016

Here we (team) had created a whole new micro-service called platform which resides on a server act as master and other slave servers hosts **Cluster** (**Platform** Agent). The communication channel between these master and slave server is **AMQP** (**RabbitMQ**). This whole system is based on Request-Acknowledge fundamentals. Coded in core **PHP** which uses Kayako's **Novo** Framework (Micro-service), it also includes **Python** bins on cluster, GoLang based beanstalkd broker, etc. Worked on **GoLang** based micro-service to read/write zones/nodes in Route53. Also modified a GoLang based broker called cmdstalk to enable processing of jobs on beanstalkd queue. Had also created an Elixir based broker to do the same stuff but management prefered the GoLang based one.
Small talk on **ZooKeeper:** https://prezi.com/p3fea51cnvs8/apache-zookeeper/
https://github.com/sensiolabs/consul-php-sdk : Added contribution to this repo. Created shim classes in NOVO for integrating Consul in Kayako's infrastructure.

More brief details mentioned at:
http://*tusharkant.com/2016/09/huh-platform-engineer.html*

Technologies Used:
- Technologies Used: Custom PHP Framework (Novo), RabbitMQ, Beanstalkd, Python bins, GoLang (cmdstalk - beanstalkd broker), Redis, RESTful APIs (micro-services) , aws-cli, aws-sdk, Consul (had contributed to sensiolabs git repo), NGINX based load-balancing and hosts configuration automation, Dynect, DNS level round-level load-balancing, Chef etc.

Sr. Software Engineer - PHP, Chetu, Inc.
Noida, U.P — Oct 2013 - Jan 2015

Delivered exceptional service by greeting and serving customers in a timely, friendly manner. Collaborated with other team members on special projects and events.

Accomplishments

- **Wallmonkeys** : Online wall decals store. _Technologies Used_ : **Magento, Solr Search.**
- **KSC-Kreate - RT (WallMart)** : An inventory management application used by "Wallmart". _Technologies Used_ : **CakePHP, ElasticSearch, Node.js, Redis.**
- **KSC-Kreate - CPWM/LTD** : An inventory management application used by "Cost Plus World Market" & "The Limited". _Technologies Used_ : **CakePHP, Elasticsearch, Node.JS, Redis.**
- **Kanakuk Kamps - HT (_kanakuk,com_)** : This whole site is solely developed by me! Current site was on Django so for better management client wanted to revamp the whole site in Drupal 7. Right now working over changes/modifications of the same. _Technologies Used_ : **Drupal 7, Solr Search, Varnish/Boost.**

Consultant - Web Developer (Drupal), The Institute of Mathematical Sciences (IMSc)
Chennai, Tamil Nadu — June 2013 - September 2013

Porting current IMSC website from Drupal 6 to Drupal 7 on
Debian 7 (wheezy) environment, using Drupal 7 debian package to
make updates more easier..

Accomplishments
- Designing custom Drupal 7 theme using Nucleus as base theme
- Created some custom modules.
- Under development.

Linux Admin & Web Developer, Raman Research Institute
Bangalore, Karnataka — September 2012 - May 2013

Established OpenLDAP authentication system and developed joomla based
website, which uses LDAP based user authentication.
Created RRI 's first online PHD application form, launched at the end of every
year. This whole process was done manually, till I introduced this concept and
taken the confidence of stakeholders for building this brilliant site in Drupal.

Accomplishments
- In Depth knowledge of Linux Environment.
- Have performed configuration, modification, and addition of schema and management of access control list of **LDAP** directory.
- Hands on experience with Joomla over live project (rri.res.in). Ported the static HTML site to **Joomla's** dynamic environment. But its still awaiting some internal approvals to go live!
- Created RRI 's first online PHD application form. _Technologies Used_: **Drupal 7, LAMP stack, Drupal Webform and other related modules, FillPDF**, etc.

.Net Trainer, Computo Educational Services
Bilaspur, Chhattisgarh — July 2011 - July 2012

Worked as a part time ASP .Net, C# .Net and SQL server trainer in Computo
Educational Services Pvt Ltd for 1 year.

Accomplishments
- Trained various students the basics to intermediate level of .NET and its different features.
- Expert in developing windows applications, web applications, windows services and web services in Microsoft Visual Studio .Net IDE using C#.Net, VB.NET,ASP.NET 3.5/4, ADO.NET and SQL Server.
- Worked extensively with Data Adapter, Dataset, Data reader as a part of ADO.NET to access and update database.
- Extensive experience in SQL Server Database design, Database

maintenance, developing T-SQL queries, stored procedures, and triggers using SQL Server 2005/2008.

EDUCATION

Dr.C.V.Raman University, Kota, Chhattisgarh
Bachelor of engineering (Computer Science) — 2008 - 2012
Passed with - **80.02%**

Constant **75+** percent scored in every semester.
Topped in 7th semester.
Technical Paper Presentations.
Computer Science Hand Ball Team Captain.

K.V. Pushp Vihar, New Delhi
10th & 12th — 2006 - 2008
Passed with - **69% and 58.5%** respectively

Participated in regional Level Hand Ball competition.

HONORS

1. National level paper presentation, organised by IEEE society, entitled as "Emerging Technologies in E-Governance" - **Author**: Tushar Kant - 2010
2. National level paper presentation on "Solution to Coverage problems of wireless sensor N/W" - **Authors**: Tushar Kant & Omkareshwar Pratap Singh, 2010
3. SQL, PL/SQL, Developer 2000, Certification from SECL, Bilaspur, C.G, India - 2011
4. ASP .Net, C# .Net & SQL Server Certification from Globbussoft Pvt. Ltd . Bhilai, C.G. India - 2010

INTERESTS

Programming, Web Developing, Learning new technologies, Playing Guitar, Listening Psychedelic Rocks.

LANGUAGES "I" SPEAKS

Hindi, English & Chhattisgarhi

REFERENCES
Available upon request.