VIVEK BHAT

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EXPERIENCE

INTEL - *Software Architect* Jan 2018 - Present

Cloud Infrastructure Solutions

- Create highly available, redundant and fault tolerant clusters on AWS for Intel Saffron customers
- Implement services like AWS Lambda and Cloudwatch in infrastructure to reduce the costs by 70%

Intel Saffron one-click Installer

- Completely automated the process of conventional Saffron installation by creating a pipeline using Ansible, terraform, Docker Swarm, Docker Compose and Bash technologies. This reduced installation time by 50% and removed any margin of human error.

SMB Centralized Logging Project Owner

- Developed the new logging mechanism to visualize logs for SMB using Elastic stack to monitor and get logs from worker nodes
- Removed the NFS mounting of log directories to achieve a centralized logging system which in turn reduced network latency by 50%.

INTEL - *Post Sales Data Engineer Intern* May 2017 - Aug 2017

Intel Saffron Java REST Client

- Designed and developed Saffron's Java REST tool encapsulating unique security protocols and complex API from scratch which:
  - Enabled 10x faster API calls and space creation
  - Provided simpler and easy to use rest API calls for use by the customer
  - Reduced the PS team's engineer allocation time from 15 hours to 1 hour

EDUCATION

- **North Carolina State University** Raleigh, NC
  Master of Science, Computer Science, GPA – 3.75/4.0 Dec 2017
  Relevant Coursework: DevOps, Object Oriented Design Development, Software Engineering, Algorithms, DBMS, Computer Networks
- **Jamia Millia University** New Delhi, India
  Bachelor of Technology, GPA – 8.3/10 May 2016

SKILLS & INTERESTS

- **PROGRAMMING**: JAVA, Ansible, Bash, JavaScript, NodeJS, Make, Makefile, Knockout.js, JQuery, RUBY, Ruby on Rails, HTML5, CSS, Bootstrap, XML, JSON, Python, C, C++, JUnit, Selenium, Mocking
- **DATABASES:** MySql, MariaDB, AWS Aurora, DynamoDB, AWS Redshift, Redis, Memcache, Postgres SQL
- **TOOLS & UTILITIES:** Terraform, Teamcity, JIRA, Docker, AWS, Kubernetes, Vagrant, Elasticsearch, Logstash, Kibana, Git, Maven
- **OPERATING SYSTEMS:** OS X El Sierra, Windows, Ubuntu, CentOS, Kali, Mint, Zorin

OTHER PROJECTS

- **Devops-Pipeline**, uses Ansible, Vagrant, AWS, Jenkins, Docker, Nginx, NodeJS (git.io/vHiiN)
  Developed a complete DevOps pipeline to deploy, build and test web applications on remote EC2 instances
- **Kubernetes-deployment,** uses Kubernetes, docker, AWS, Vagrant (git.io/fNOKh)
  Created a 3 node cluster using Vagrant and AWS to deploy a multi-tiered microservices based application using Kubernetes and performed rolling updates of the updated docker images
- **Serverless Repos,** uses AWS-S3, Route53, API Gateway, Lambda (git.io/fNlul)
  Collection of various AWS Lambda and serverless deployments such as a serverless REST API, S3 events, EC2 management etc

Open Source Contribution:

- **EXPERTIZA**, uses Ruby On Rails, Docker-Compose, Redis (git.io/v1ixj)
  Created a fully automated shell script to help developers install the Expertiza. A docker-compose file manages the various docker images to spin up the containers. Reduced the memory allocation for Expertiza by 18 GBs from conventional ways by using docker.

Hackathon Projects

- BitcoinBot in HACKNC 17 (UNC Chapel Hill, NC USA) uses AWS Lambda, Alexa Skills, Bash, Ansible (git.io/vFWAx)
  A multifunctional Amazon Alexa skill to help amateur investors make an informative decision in buying bitcoin using just Alexa.

LEADERSHIP AND PUBLIC SERVICE EXPERIENCE

- Chairperson of IEEE JMI Student Branch and IEEE JMI Computer Society (2015-2016).
- Vice-Chairperson of IEEE JMI Student Branch (2014-2015).
- Dr J. K. Pal Memorial Award for the Best IEEE Student member 2016 from IEEE Delhi Section of Region 10 Asia Pacific.
- Active member at the Goodwill Community Foundation in Durham, North Carolina