

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%

Tierpoint Migration to AWS

- Designed and implemented a highly available AWS architecture to migrate our conventional sales and demo servers to a centralized AWS infrastructure and reduced the costs by 50%

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.

Centralized Logging with Elastic stack, 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, Python, JavaScript, NodeJS, Make, Makefile, Knockout.js, JQuery, RUBY, Ruby on Rails, HTML5, CSS, Bootstrap, XML, JSON, 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

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