Ishan Tyagi

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EDUCATION

IIIT HYDERABAD
M.Tech in Computer Science
Post Grad 2018-20 |Hyderabad,India
CGPA:7.71/10

KNIT,SULTANPUR
B.Tech in Information Technology
Grad 2013-17|Sultanpur,India
Percentage:80%

SKILLS
•C/C++ •Golang •Python
•Docker •Kubernetes •Etcd
•Prometheus •Grafana
•AWS(EC2,S3) •Azure •Helm
•NoSQL •SQL •Bash •Git

COURSEWORK
•DataStructures and Algorithms
•Operating System
•Computer Networks
•Distributed system
•Database system
•Statistical method in AI

MOOCS
•Machine learning by Stanford University offered through Coursera
•Deep learning by deeplearning.ai offered through Coursera

ACHIEVEMENTS
•**AIR-840** among 107,893 candidates with **99.22** percentile in GATE CS 2018
•Scored **95/100** in both Physics and Chemistry in class 12th
•Secured **2nd** Rank in District Chess championship

WORK EXPERIENCE

SAP LABS,INDIA Developer
April'22-Present
•Working as Core Developer on OpenSource Project **Gardener:Kubernetes at Scale**
•Contributor and Maintainer of **etcd-backup-restore** and **etcd-druid**(aka etcd-operator): control Plane component of Project Gardener.
•Primary focus is to design, implementing the Multi-node etcd-backup-restore and move to multi-node from single node etcd-backup-restore.
•**Notable Contributions:** To dynamically load IaaS credentials during runtime.

Associate Developer
July'20-March'22
•Designing, implementing and owning critical components of Multi-node etcd-backup-restore
•**Notable Contributions:** Compression of snapshots and LeaderElection in Multi-node etcd-backup-restore.
•Also worked as kubernetes administrator to resolve end-user issues and troubleshoot the cluster.
•Mentored the group of interns and help them to get onboard on Project Gardener.

PROJECTS

DISTRIBUTED KEY-VALUE STORE |Java
- Developed a distributed system to store key-value with fault tolerance.
- Clients can request GET, PUT or DELETE key.Involved components like master-slave architecture and consistent hashing.
- Multiple clients communicate with a single master server in a JSON messaging format.

RAFT PROTOCOL |Go
- Implemented a replicated log system using RAFT consensus algorithm.
- Involved components like Leader Election and log replication, reliable persistence of states to manage failure.

MINIBIT TORRENT |C++ ,Pthread
- Developed a Peer to Peer multimedia file sharing network.
- Tracker with fault tolerance is implemented which helps in getting a file from multiple available seeders.

THREADPOOL LIBRARY |C++
- Implemented a Generic ThreadPool library, it helps in spawning and destruction of threads.
- Implemented a Multi-Threaded web server using threadPool library.