Saurabh Gaggar

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Address: 1715 E Don Carlos,213, Tempe, AZ

Education

Master of Science, Computer Science   *Spring 2021-Present*
Arizona State University, Tempe | GPA: 4.0
CSE510:DBMS Implementation, CSE546:Cloud Computing, CSE511:Data Processing at Scale

Bachelor of Technology, Electronics and Communication Engineering   *2014-2018*
National Institute of Technology Karnataka, Surathkal, India
SIG Head of Cipher (Computer Science SIG) at Institution of Engineering and Technology club

Skills

- 2.5 years' work experience in Software Development with Java 8.
- RHEL Linux, Git, JIRA, Teamcity CI-CD; Software engineering with Agile
- Java 8, Distributed and Multi thread programming using thread pools, Executor interface, synchronization using java atomic classes; Functional programming interfaces.
- Full stack Web Development using spring boot, jQuery, MongoDB, Oracle, Hazelcast, Gemfire
- Cloud application development on AWS EC2, GCP GAE, Digital Ocean and administration.
- Apache Kafka, Storm, Spark, Zookeeper, integration and development with java.

Experience

Citibank | Software Developer | Full Time   *Aug 2018-Dec 2020 | Pune, India*

- Build security layer on existing Gemfire cache grid in java, integrate with internal systems like LDAP, Kerberos and OAuth2 for authentication and authorization.
- Build, maintain Gemfire cache grid with multi node physical machines clusters in production in multiple geographical regions. Set up auto backup and failover pipelines. Involve and manage support teams and vendors.
- Design, develop a new architecture using distributed processing systems like Apache Storm and Kafka in Java 8 to increase throughput and provide horizontal scalability of QMA mail processing application, effectively tripling the old throughput.
  Use MongoDB and Oracle as databases, Hazelcast as in memory cache.
- Develop internal Kafka Java API client, making it fail resilient by enabling multi-datacenter message replication and an intelligent client with auto-switching capabilities between different geographical regions.
- Demonstrate that a caching system with a lazy-loading design can be set up between Apache Geode and HBase for most efficient use of memory resources.
- Member of Technical Pillar of Citi Pune Campus

Citibank | Software Development | Intern   *May-July 2017 | Pune, India*

- Develop REST web application with java spring boot to track changes in software development by integrating various sources of information like git, build tools, CI tool and JIRA.

Projects

User preference sensitive database

- Extend Minibase Database engine, implement skyline operator and hash index features to support ranked user preference queries.
- Implement custom index,data file storage mechanism for clustered and un-clustered B+ Tree and Hash indexes

Autoscaling EC2 on AWS

- Use AWS EC2 java API to develop multi-tiered autoscaling image processing backend on AWS, use SQS for message queue and S3 for storage.

Storage Optimizer

- Build autoscaling PAAS based Web app using java 8 spring boot on Google App engine to integrate various cloud storage accounts like Google Drive, Dropbox into single space, provide sharded and encrypted storage.