

Muhammad Saqib

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EDUCATION

- **National University of Computer and Emerging Sciences** 2012 – 2016
BS Computer Science, CGPA: 3.03/4.0
- **Ayesha Bawany Govt. College** 2010 – 2012
Inter Pre-Engineering, 76% marks

EXPERIENCE

- **Cloud9 Networks FZE** UAE
Sr. Software Engineer July 2016 - Present
 - **Cloud Monitoring Software:**
 - * Research and solution design for Openstack private cloud infrastructure and services monitoring.
 - * Development of the proposed design that included Sandboxed Lua plugins for Heka(github.com/mozilla/heka) and python plugins for collectd for data collection and processing and Elasticsearch , Logstash and Influxdb for Storage and retrieval and Kibana for Visualization.
 - * Building grok and Lpeg patterns for various services of Openstack cloud: for parsing of machine data into fields for fast retrieval and visualization.
 - * Security testing and best practices.
 - * Built deployment puppet modules and manifests for 1-click deployment.
 - **Network Monitoring System:**
 - * Competitor research and analysis of trends in the domain.
 - * Implementing POC solutions with opensource tools and demonstrate them to decision makers.
 - * Design ,development and intergration of existing opensource tools and in house built addons for network monitoing: including querying of timeseries data from network devices and the storage , visualizatioona and reporting.
 - * Elasticsearch , Logstash and Kibana for parsing, storage and retrieval of syslog from devices ranging from PDUs to core switches.
 - * Supporting deployment engineer and troubleshooting problems in deployment.
 - **PNDA Project:**
 - * Deployed PNDA Big data network analytics toolchain on Openstack cloud private.
 - * Troubleshooting of various SaltStack scripts and declarative states in the deployment process.
 - * Providing support to various users of the opensource tool with problems specific to deployment on Openstack cloud.
 - **Big Data Analytics Engine:**
 - * Developing front-end forms and tables using server-side pagination with Angularjs framework 1.0.
 - * Writing REST api methods in Java Spring.
 - * Design and deployment of distributed hadoop backend- along with tools of the big-data ecosystem.
 - * Creating UI forms for establishing jdcp kafka connector for streaming data from Mysql and MsSQL databases;
 - * Aggregation and storage of data in HDFS.
 - * Created a solution for deduplication of records in HDFS byh scheduling Apache Oozie jobs.
 - **KPK Govt. College Students Wifi Login Management System:**
 - * Analysis Design and implementation of the solution.
 - * Lead the development team.
 - * UI/UX process improvement and testing.
 - * Tracking code versions , branches and commits with git.

SKILLS

- Engineer robust systems with minimalist design and clean code.
- Hands-on expertise with cloud native technologies like Docker and Kubernetes and deployment of containerized apps and Cloud IaaS namely AWS and Google Cloud.
- Experience with Big data and its tools like developing MapReduce in Java and working with Kafka, Zookeeper , Hive, Impala for reporting in HDFS.
- Experience with Frontend technologies : React 16 and Angular 1.0.
- Leading a team of entry-level engineers and training them.
- Extensive experience with Python Django, Flask, OOP and Data science tools namely Pandas, Numpy, Keras and Tensorflow.
- HPC distributed cluster system design and programming in MPI, Nvidia Cuda and OpenMP.
- Practical knowledge of HA and load balancers.
- Experience with relational, NoSql and time series databases namely MySQL, MongoDB, Firebase , Influxdb, Graphite, Hive.
- Proficient in Java, Python, JavaScript and C++.

HOBBY PROJECTS

- **Sokoban Solver:** Solving sokoban puzzle (an NP-Complete problem) with machine learning. Designed a recurrent neural network and generated data by SAT solver. White Paper
- **Grpc api:** Grpc Nodejs api with MongoDB that outperforms its json counterpart by 10-100x speed.
- **Big data clusters:** Built virtual machine cluster for MPI and bare metal cluster system for Hadoop MapReduce in HPC lab, FAST.