Muhammad Saqib

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https://github.com/saqibarfeen/

EDUCATION

- **National University of Computer and Emerging Sciences** — 2012 – 2016
  BS Computer Science, CGPA: 3.03/4.0

EXPERIENCE

- **Cloud9 Networks FZE** — Karachi
  Sr. Software Engineer — *July 2016 - Present*
  - **Cloud Monitoring Software**:
    * Research and development of Logging, Monitoring and Alerting software for Openstack private cloud.
    * Security testing and best practices.
  - **Network Monitoring System**:
    * Design, development and integration of opensource tools and in house built add-ons for network monitoring: including time series data storage, visualization and reporting.
    * Elasticsearch, Logstash and Kibana for storage/retrieval, parsing, and visualization of syslog data from devices ranging from PDUs to core switches.
    * Supporting deployment engineer and troubleshooting problems in production.
  - **PNDA Project**:
    * PNDA Big data network analytics toolchain on Openstack cloud.https://github.com/pndaproject/
  - **Big Data Analytics Engine**:
    * Writing REST API methods in Java Spring and front-end in Angularjs.
    * Design and deployment of Hadoop cluster and data streaming pipeline from relational data sources to HIVE.
    * Apache Oozie Cron jobs for scheduling scripts in HDFS.
  - **Govt.KPK Colleges Internet Access Request System**:
    * Lead the Analysis, design and implementation of the solution with MERN stack.
    * Using Git for version control and CICD with git hooks.

- **FAST-NUCES**
  Research Assistant — *Jan. 2015 - June. 2016*
  - **Research Assistant - Machine Learning**: Research on puzzle solving using various techniques. Applied deep learning on data generated from Copris Theorem Prover. http://dx.doi.org/10.14569/IJACSA.2017.080364
  - **System engineer - Nvidia HPC lab**: Built Message Passing Interface(MPI) cluster for distributed memory programming and Hadoop cluster for map-reduce programming for HPC class of Fall-2015.

TECHNICAL EXPERTISE

- **Languages**: Python, Javascript, Java, C++, SQL.

- **Web frameworks**: NodeJS, Spring Framework, Reactjs, Angularjs 1.0, Python Flask.

- **Databases**: SQL, NOSQL and Timeseries; e.g Mongodb, HIVE, MySQL, Influxdb, Carbon.

- **BI & reporting**: BIRT, Jasper Reports, R Statistics Package.

- **Automation**: Puppet, Ansible, SaltStack.

- **Logging Monitoring & Alerting**: Prometheus, Elasticsearch, Logstash, Kibana, Mozillla Heka, Nagios, Icinga2.

- **Cloud technologies** : Docker, Kubernetes, Openstack, AWS, GCP, Heroku.