Muhammad Saqib

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Education

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

Technical Expertise

- **Languages**: Javascript, C++, Python.
- **Web frameworks**: NodeJS, React, Flask.
- **Databases**: SQL, NOSQL and Timeseries; e.g. Mongodb, HIVE, MySQL, Influxdb, Carbon.
- **Automation**: Puppet, Ansible, SaltStack.
- **Network monitoring**: Elasticsearch, Logstash, Kibana, Nagios, Icinga2.
- **Cloud technologies** : Docker, Kubernetes, Openstack, AWS, GCP, Heroku.

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.
    - Development of telemetry and metering module for Openstack.
  - **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 jobs for executing HIVE scripts.
  - **Internet Access Request System for Govt.KPK Colleges**:
    - Lead the Analysis, design and implementation of the solution with MERN stack.
    - Git for version control and continuous deployment 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.