Muhammad Saqib

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Education

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

Technical Skills

- **Programming**: C++, Python, Java, Javascript, SQL.
- **Frameworks and Libraries**: NodeJS, React, Flask, Numpy, Pandas.
- **Databases**: MySQL, Mongodb, Elasticsearch, HIVE, Influxdb.
- **Data visualization**: Kibana, Grafana, BIRT, Jasper Reports.
- **Network monitoring**: Nagios, Icinga2, ELK stack.
- **IT Automation**: Puppet, Ansible, SaltStack.
- **Cloud technologies** : Openstack, AWS, GCP, Docker, Kubernetes.

Work Experience

- **Ivolve Technologies**
  Sr. Software engineer *Jul 2019 - date*
  - **Microservices applications**: Building microservices with Flask, Sanic and Nodejs. Designing the UX of the web application. Interfacing different services using Rabbitmq.
  - **Monitoring system**: Building a monitoring data pipeline for the microservices and the cloud infrastructure with tools like Ceilometer, Gnocchi, Elasticsearch, Graphite and Grafana.
- **Cloud9 Networks FZE**
  Sr. Software engineer *Jul 2016 - Jun 2019*
  - **Cloud Monitoring Software**:
    - Developed a logging, monitoring and alerting system for Openstack cloud.
    - Developed telemetry and metering system for Openstack cloud.
  - **Network Monitoring System**:
    - Development and integration of Network monitoring system that monitors thousands of customer premises equipment: collects and stores metrics and visualizes data with alerting and ticketing systems integrated.
  - **Big Data Analytics Engine**:
    - Developed a REST API in Java Spring and front-end in AngularJS.
    - Designed a Hadoop cluster for data streaming pipeline from relational data sources to HIVE.
    - Created Oozie jobs for executing HIVE scripts.
  - **PNDA Project**:
    - Deployed PNDA Big data network analytics toolchain on Openstack cloud. https://github.com/pndaproject/
  - **Internet Access Request System for Govt.KPK Colleges**:
    - Lead the analysis, design and implementation of the application.
- **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.