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 infrastucture 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 . Elasticsearch , Logstash and Influxdb for data 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 puppet modules and manifests for 1-click deployment.

- **Network Monitoring System**:
  - Competetor research and analysis of trends in the domain.
  - Implementing POC solutions with OSS tools and demonstrate them to decision makers.
  - Design,development and intergration of opensource tools and in house built addons 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**:
  - Deployed PNDA Big data network analytics toolchain with Openstack cloud.
  - Troubleshootiing of various SaltStack scripts and declarative states in the deployment process.
  - Providing support to various users of the opensource tool with problems in Openstack platform.

- **Big Data Analytics Engine**:
  - GUI development with Angularjs framework 1.0.
  - Writing REST API methods in Java Spring.
  - Design and deployment of hadoop cluster,and data streaming from JDBC to HIVE.
  - Deduplication of records in HDFS by scheduling Apache Oozie cron job.

- **KPK Colleges centralized wifi access system**:
  - Analysis,design and implementation of the solution with MERN stack.
  - Lead the development team.
  - Using Git for version control and CICD.

SKILLS

- Engineer robust systems with minimalist design and clean code.

- Hands-on expertise with Docker and Kubernetes for deployment of containerized apps on cloud : AWS,Azure,GCP and Heroku.

- 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 React and Angularjs.

- Leading a team of trainee engineers.

- 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 load balancers and HA.

- Knowledge of **Hypervisors** and SDN with **Openvswitch**.

- Experience with relational,NoSql and Time-series databases.

- Hands on with Java, Python, JavaScript and C++.

OTHER PROJECTS

- **Sokoban Solver**: Solving sokoban puzzle(NP-Complete problem) with machine learning. Designed a recurrent neural network and generated data using SAT solver. http://thesai.org
- **Grpc API**: Grpc API with Nodejs and Mongodb.
- **System programming**: Built virtual machine cluster for MPI and bare metal distributed Hadoop cluster at HPC lab, FAST-NU.