Muhammad Saqib

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https://github.com/saqibarfeen/

EDUCATION

National University of Computer and Emerging Sciences

2012 - 2016

Email: saqib.arfeen@gmail.com

Mobile: +92 346 6311199

BS Computer Science, CGPA: 3.03/4.0

Ayesha Bawany Govt. College

2010 - 2012

Inter Pre-Engineering, 76% marks

EXPERIENCE

Cloud9 Networks FZE

Sr. Software Engineer

Karachi

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 collected 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 Angularis 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 with git hooks.

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.
- Developed Hadoop programs in Java and worked with Kafka, Zookeeper, Hive, Impala for reporting in HDFS.

- Experience with React and Angularjs.
- Lead a team of trainee engineers.
- Experience with Python and ML toolchain: Pandas, Numpy and Keras.
- Distributed 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.