Muhammad Saqib

https://www.linkedin.com/in/mohamedsaqib/

https://github.com/saqibarfeen/

EDUCATION

National University of Computer and Emerging Sciences

BS Computer Science, CGPA: 3.03/4.0

DS Computer Science, CGPA: 3.03/4.0

Ayesha Bawany Govt. College

2010 - 2012

Email: saqib.arfeen@gmail.com

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Inter Pre-Engineering, 76% marks

Programming Skills

• Languages: Java, Python, JavaScript, , C++, Php, C#, SQL.

• Design frameworks: Spring, Express, React, Flask.

EXPERIENCE

Cloud9 Networks FZE

Karachi

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 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 solutions with OSS tools and demonstrate them to decision makers.
- * Design, development and intergration of open source 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.
- * Troubleshooting of various SaltStack scripts and declarative states in the deployment process.
- * Providing support to various users of the open source 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.

$\circ\,$ KPK Govt. colleges centralized Internet 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.
- 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 Angularis.
- Distributed system design and programming in MPI, Nvidia CUDA and OpenMP.
- Practical knowledge of load balancers and HA.
- Hypervisors and SDN: Esxi, KVM, Openvswitch.
- Relational, NoSql and Time-series databases: Mysql, MSSQL, Mongodb, Influxdb, Elasticsearch.
- Reporting tools: BIRT, JasperReports.
- Automation: Puppet, Ansible, SaltStack.

OTHER PROJECTS

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