

Muhammad Saqib Arfeen

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EDUCATION

- **National University of Computer and Emerging Sciences - FAST** Karachi, PAK
Bachelor of Science in Computer Science; GPA: 3.03/4.0 Aug. 2012 – Jun. 2016

PROGRAMMING SKILLS

- **Languages:** Python, Java, C++, Javascript, SQL

COURSEWORK

- Artificial Intelligence, Machine Learning, High Performance Computing, Computer Graphics, Neural Networks.

EXPERIENCE

- **Cloud9networks FZE** Karachi, PAK
Software Engineer Jul 2016 - Present
 - **Trace 9:**
 - * NMS that monitors all types of core network and customer premises devices. Designed for scale, it collects, processes and stores metrics for fast retrieval. It integrates various tools for Graphing, reporting and alerts.
 - **Observer 9:**
 - * A logs and metrics monitoring system for Openstack cloud. It works in a distributed mode: collects, parses and aggregates system metrics and log data from all your Openstack cloud. It provides a single dashboard for a comprehensive overview of the health of all your openstack nodes, services and roles.
- **National University of Computer and Emerging Sciences - FAST** Karachi, PAK
Research and Teaching Assistant Jan 2015 - Dec. 2015
 - **Research Assistant - Machine Learning:** Research on machine learning for puzzle solving. Coded a prototype with Keras and trained it with GPUs. <http://dx.doi.org/10.14569/IJACSA.2017.080364>
 - **Teaching Assistant - Theory of Automata, Introduction to Algorithms:** Class assignments and compilation of final grade sheets. The class strengths were 150 and 100 students respectively.

PROJECTS

- **Data Engine:** Designed and deployed a multi-node Hadoop cluster, with HIVE, Impala, Oozie, Kafka and Kafka Connect.
Data analytics solution capable of streaming data from various sources and aggregates it HDFS.
- **Openstack cloud monitoring:** Created a logging monitoring and alerting solution that parses, transforms and aggregates ingested log data with Logstash and Heka and then indexes it in Elasticsearch.
- **Sokoban Solver:** A puzzle solver with machine learning. Designed a recurrent neural network and python scripts that generated training data using a SAT solver.
- **big data clusters:** Created virtual machine and bare-metal clusters for MPI and Hadoop map reduce in HPC lab.