

# Muhammad Saqib Arfeen

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## EDUCATION

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

## PROGRAMMING SKILLS

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- **Languages:** Python, JavaScript, Java, C++, SQL
- **Design frameworks:** Spring, Express, React, Flask

## COURSEWORK

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

## EXPERIENCE

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- **Cloud9networks FZE** Karachi  
*Software Engineer* *July 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 log and metrics monitoring system for Openstack cloud. It works in a distributed mode: collect, 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.
    - \* 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. .
- **National University of Computer and Emerging Sciences - FAST** Karachi  
*Research and Teaching Assistant* *Jan 2015 - Dec. 2015*
  - **Research Assistant - Machine Learning:** Research work on puzzle solving. Copris solver generated the solutions of puzzles in high volume, that served as training data for an RNN model-prototyped with Keras and trained on GPUs.  
<http://dx.doi.org/10.14569/IJACSA.2017.080364>  
<http://bach.istc.kobe-u.ac.jp/copris/docs/intro-en.pdf>
  - **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

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- **Data Engine:** Designed and deployed a multi-node Hadoop cluster, with HIVE, Impala, Oozie, Kafka and Kafka Connect. Built a streaming system that streamed data with its schema from SQL sources. It aggregates the data in HDFS for HIVE queries and BI reports.
- **Big data clusters:** Created virtual machine and bare-metal clusters for MPI and Hadoop in HPC lab of FAST-NU.