Muhammad Saqib Arfeen

saqib.arfeen@gmail.com

https://github.com/saqibarfeen/

+92-346-6311199

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

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 retrival. 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.
    - 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, PAK
  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

- **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 map reduce in HPC lab.