

# HAMMAD ALI KHAN

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## EDUCATION

### **BS (COMPUTER SCIENCE), 2011-2015**

FAST-NUCES, KARACHI

### **INTERMEDIATE (PRE-ENGINEERING), 2009-2011**

COMMECS INSTITUTE OF BUSINESS AND EMERGING SCIENCES

### **MATRICULATION (SCIENCE), 2007-2009**

HAMDARD PUBLIC SCHOOL

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## SKILLS

**Programming Languages:** Python, JavaScript, JAVA, C/C++, PHP, C#, NodeJS, R, Scala, GO

**Framework/Stack Web:** Ruby on Rails, Flask, Django, Express, OpenCV

**Big Data:** Hadoop, Spark, Kafka, Flume, ZooKeeper, Elastic Search (ELK)

**Databases:** SQL/PLSQL, ER/Schema Designing, MongoDB, Postgres, InfluxDB, Cassandra

**Cloud:** AWS (EC2, S3 storage, RDS database, Dynamodb database, API Gateway, VPC, EBS Elastic Beanstalk web deployment, EMR Elastic Map Reduce for big data processing, IoT Core, Greengrass), Predix (Timeseries service), Google

**Courses:** Design and Analysis of algorithm, Computer network, Artificial intelligence, High performance computing, Network security, Design patterns

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## EXPERIENCE

### **October 2018 – Present**

Zaavya, Sr. Software Engineer

### **Job Responsibilities**

Working on a project of MDM (Master Data Management) for USA based client. My responsibilities include

Provide team with knowledge of advance cloud computing for big data processing, architecture designing, serverless design pattern for consuming, transforming and run data analytics to gain meaning full insights of data. As a start-up working on different technologies provide me with diversity of knowledge particularly for cloud. Other responsibilities include set-up ingestion process for graph databases, retry mechanism for Pub—Sub failure, logging, etc.

## March 2017 – October 2018

Inbox Technologies, Trainee Technical Consultant

### Job Responsibilities

- Work in department of DIH (Digital Intelligence Hub) creating smart product using AI, Machine and Deep Learning.
- Applying latest technologies in field of data engineering retrieving, transforming, cleaning and providing deep insights of complex data using stack provided by Cloudera.
- Worked on facial recognition an in-house build for getting stream from NVR (Network Video Recorder) and training a model for recognition and detection, for attendance management and count.
- Extensive work on AWS cloud services, familiarity with cloud infrastructure, provide me an edge to build, prototype and deploy different architecture with diverse technological stack.
- As a team lead I am having people across cities managing, reporting, distribution of work load and keeping team trained with latest technological trends is one of my core skills.

### Projects

- Worked with Engro Polymer manufacturing for HCL column recommendations. Getting more than two hundred variables, pushing it to predix cloud, applying cleaning for data sparsity and transformation and finally utilizing it to train a model.
- Working with REON Solar Energy providers for providing them real data analytics. Getting data for inverter, grid, generator and weather, pushing it to predix cloud time-series. Finally, will be applying machine learning for cost optimization on solar panel maintenance based on temperature, dust and solar output.

## February 2016 – February 2017

10Pearls Pvt. Ltd., Game Developer

### Job Responsibilities

- Develop and design games both 3d and 2d on unity3d cross platform iOS and Android.
- Responsible for writing backend logic for games mostly 2d.

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## RESEARCH INTEREST

- Eager to work on latest technologies based on machine and deep learning with endless implications on churn detection, predictive analysis and computer vision.
- Opportunities to work on GPUs clusters for high performance computing, developing robust algorithms.
- Work in field of artificial intelligence focusing industries like manufacturing, health, internet of things, energy sectors to help develop smart system that optimize cost and maintenance.
- Work in field of computer vision to detect, recognize and track to help improve security for smart cities.

