ANWAR UL HAQUE

Director Engineering

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SUMMARY

- Fluent in Product Engineering & Concept to Product life Cycle.
- Proficient in Deep & Machine Learning.
- Expertise in CUDA, Spark, Hadoop & Big Data Solutions.
- Experienced in SQL & No-SQL Technologies
- Completing Research Work for PhD Thesis, IBA Karachi.
- 14+ Years of Industrial & 10+ Years of Teaching Experience, in various capacities.

EXPERIENCE- INDUSTRY

14+ Years

Director Engineering, AI & Crypto.
CodeX

📅 Current   📍 Karachi, Pakistan

- Design & Development of Product & Services Architecture
- Resource Management & Product Planning & Handling
- Development of AI & ML Plans, Algos. & Outcomes
- Coaching & Developing Individual Contributors to foster high-performing engineering culture
- Ensuring Quality, Scalability, Security, & Performance of Products & Services
- Engaging Internal & External stakeholders Enabling Business Value Creation, along with Stability and Adaptability of Solutions
- Ecolization a Mindset of Continuous Improvement to Enable Faster Concept to Market at Reasonable Cost

Product Manager AI & Crypto.
CodeX

📅 Dec 2016 – Aug 2019   📍 Karachi, Pakistan

- Concept to Product Planning & Team Building
- Development of Core Architecture of Product
- Development of AI/ML Core Modules
- Defining the Product Strategy and Road-map
- Guiding MRDs and PRDs Process with Prioritized Features
- Engaging External Third Parties for Partnerships and Licensing Opportunities
- Product Demonstration and Client Handling
- Product Price Management & Budget Analysis
- Guiding & Training The Sales Force

Assoc. Engineer
GNSS Div, SUPARCO

📅 Jan 2007 – Dec 2016   📍 Karachi, Pakistan

- Worked on the Development of SDR RTOS
- Lead the Team for the Development of GNSS Receiver Tracking Engine
- Involved in Development of GNSS Receiver Acquisition Engine

EDUCATION

PhD (Computer Science)
Institute of Business Administration

📅 Current   📍 Karachi

- CGPA 3.67/4.0
- Research Work in Progress

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MS (Computer Science)
PAF-KIET

📅 2016   📍 Karachi

- CGPA 3.5/4.0
- Completed MS with Research Work

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MCS (Telecomm & Networks)
PAF-KIET

📅 2012   📍 Karachi

- CGPA: 3.6/4.0
- Gold Medalist & First Position Holder of Class

TECHNICAL SKILLS

Skill	Level
C/C++/C#, Python, Julia	●●●●○
Verilog, VHDL, Matlab	●●●●○
Linux, Dockers, Kubernetes	●●●●○
Hadoop, Spark, CUDA	●●●●○
Kafka, Map-Reduce, Falcon	●●●●○
NoSQL & SQL Technologies	●●●●○
In-Memeory Stores & Caches	●●●●○
GNSS, GPS, GIS, Navigation	●●●○○
IoT, M2M, M2H	●●●●○
Project Management, Planning	●●●●○
Office & Documentation	●●●●○
Team Building & Coaching	●●●●○
Customer Satisfaction Analysis	●●●●○

SOFTWARE SKILLS

- Linux, Mac, Windows, Raspbian, Viper, RTOS
- IntelliJ, VSCode, Visual Studio, Matlab
- Jira, Trello, Asana, Git
- Altera Quartus, Xilinx ISE, Altium, Xpedition Enterprise, Altium

EXPERIENCE - ACADEMIA

10+ Years

Faculty Member & PhD Candidate

Faculty of Computer Science, IBA Karachi

📅 Aug 2017 – Current   📍 Karachi, Pakistan

- Courses:
  - Data Warehousing, AI, BigData Analytics

Senior Lecturer

Department of Computer Science, DHA SUFFA Karachi

📅 Feb 2017 – July 2017   📍 Karachi, Pakistan

- Courses:
  - Operating System, Computer Architecture & Organization, Deep Learning, Machine Learning

Visiting Faculty

Department of Computer Science, University of Karachi

📅 July 2011 – Dec 2016   📍 Karachi, Pakistan

- Course:
  - Distributed Computing, Parallel Computing, Operating System, Computer Organization & Architecture, Data Communication & Networks

PUBLICATIONS

- Enhanced GNSS Positioning Solution on Android for Location Based Services Using Big Data.
  - Journal of Internet Technology, vol 20 (2019) No.2, pp 399-407, 2019
  - DOI: 10.3966/16079264/2019032002009

- Performance Comparison of State of Art NoSql Technologies Using Apache Spark.
  - Intelligent Systems and Applications. IntelliSys 2018. Advances in Intelligent Systems and Computing, vol 869. Springer, 2018
  - https://doi.org/10.1007/9783030010577_44

- Decentralized Transfer Learning using Blockchain & IPFS for Deep Learning.
  - ICOIN Conference Barcelona, Spain. IEEE Xplore, 2020
  - https://doi.org/10.1109/ICOIN48656.2020.9016456

- Comparative Study of BPSK and QPSK for Wireless Networks over NS2
  - International Journal of Computer Applications, 2012, vol 41, No. 19, pp 8-12
  - DOI: 10.5120/5647-7809

- A R2N2 Approach For Cardiac Behavior Forecast on Non-Trending Big HealthCare Data
  - AECT Conference, Islamic University of Medina, IEEE, 2020
  - DOI: 10.1109/AECT47998.2020.9194156

WORKSHOPS

- Conducted 8 weeks long hands on training of NoSQL Technologies, NoSQL Infrastructures and NoSQL based business driven data solutions for the students of Big Data Diploma course in IBA, 2018

- Conducted an one day workshop on GIS Mapping for Media Reporting using Mobile based GIS applications for the reporters of Shama-TV Pakistan in IBA, 2018 & 2019

- Conducted an one day workshop on Apache Hadoop, NoSQL & Apache Spark for employees of QorData in March 2017 at their office, The workshop helped them to ensure performance of their mission critical applications on massive scale

- Conducted a workshop on parallel computing using Apache Hadoop for Research in DHA SUFFA University for PhD Scholars & Faculty of Computer Science in May 2017

CERTIFICATIONS

- IT, AGICS-TECH, 2003
- Web-Engineering, CCEE NED, 2007
- Matlab, CCEE NED, 2007
- GNSS, IST, 2014
- GNSS, APSCO, 2014

ACHIEVEMENTS

🎓 Received Gold Medal in MCS

🏆 Best Performance Award of 2011 & 2013, SUPARCO

🏆 Chairman Commendation Award 2014, SUPARCO

🏆 Team Performance Award 2015, SUPARCO

$ Multiple Financial Scholarship during MCS, PAF-KIET

STRENGTHS

Hard-working   Persuasive

Motivator & Leader

Project Management   Persistence

Result Oriented   Dynamic

Technologist

PRODUCTS

Livefree, CodeX-XpertMRI

- a knowledge graph-driven ai system for effectively filing the IMR application along with cutting down on labor and time by data-driven text analysis. the ai-driven IMR claim and response management system that seamlessly integrates MTUS, ACOEM, and ODG. Livefree offers an easy-to-navigate administrative platform for healthcare professionals and worker's comp attorneys to help the patients regain health and productivity.

  `https://livefreenow.us`

Iponym, CodeX

- Completely unsupervised solution for healthcare analytics from the perspective of insurance fraud detection, patient care management, drug discovery, and drug re-usability analysis. designed & operated as autonomous healthcare service for multiple hospitals & clinics of california, usa.

  `https://iponym.ai`

Mindrover, CodeX

- Completely unsupervised, self-learning, and knowledge graph-driven ai for various computer vision needs. mindrover offers an autonomous & knowledge-driven cv system that handles various cv problems in real-time with state of art stack generalization algorithm. mindrover is a single-window solution for a broad range of applications i.e. precision farming, crop growth monitoring, self-driving vehicle training data annotations, movie and image annotations, single-shot storytelling, satellite image analysis, human and body parts pose estimation, depth and distance estimation, etc.

  `https://mindrover.ai`

Loop, Techna-X - CodeX

- The loop offers secured, server-less, self-managed & customized encryption support for high-quality business communications anywhere, on any device. complete customized experience of communication with innovative hybrid solution leveraging the benefits of both cloud and on-premise integration.

  `https://getloop.us`

eSecurity, X-Prime

- eSecurity by x-prime is the only solution in the world with the ability to process encrypted data with the help x-prime's patent FHE technology. eSecurity offers state-of-the-art processing over RSA 2048/4096 bit encrypted data without ever decryption of data. the processed result also converts in the IP of user to ensure no backward tracking of processing algorithm.

  `https://esecurity.ai`

DarkPool, X-Prime

- FHE Enabled Data Market, providing secured & encrypted transaction of data among users of different banking setups. Providing completely blind computing over data with enforced result rights management. Targeting Multi-Party computing venues with completely Trust-less zones.

  `https://x-prime.us`

PROJECTS

SES, SimpleEnergySys

- An IoT driven M2M system for industries, offices & homes for ensuring 99% duty cycle optimization for power deliver & usage. SES provides a full spectrum of energy management setups for various power generation & consumption setups and adapts seamlessly to the business needs with the current infrastructures.

  `https://simpleenergysys.com/`

SWISS, SWISS

- A Rooted and Restorative learning experience for all Muslim brothers & sisters. SWISS's goal is to produce educated, contextual, passionate invigorated Muslims, equipping them with foundational knowledge, packaged in a way that inspires, and encourages critical thorugh and growth.

  `https://www.suhaibwebb.com`

Smart City Analytics, Techna-X

- Smart City Analytics helps government organizations to ensure the smooth spread of industrial zones in the region, cities, and even in the entire country such that there is no mass migration of workforce needs to be done to coup up the requirements of human resource. Determine whether a particular region (districts, cities, states, or even the entire country) already has another business that is providing the same merchandise/services the user is planning to sell. Determine what merchandise/services the current region is lacking. Help the merchandise/service provider to find out possible to do things to have a better business outcome as compared to the competitive party. Globalized demographics Analysis target specific business/service.

Profile Analysis, MDLABS

- Profile Analytics is a state-of-the-art business growth and revenue analytics platform. It provides business intelligence in the domain of supply chain for a specific business, allows directorship analysis to the heads. The drill-down version of Profile Analytics Modules enables its users towards company ROI, revenue, growth metrics in terms of global and local conditions, nature of business, type of industry, type of business, user behaviors and churns, etc.

Software GNSS Receiver, SUPARCO

- Reconfigure-able software defined GNSS receiver for GPS, BeiDou & Glonass, designed using Quartus & FreeRTOS

Fleet Management System, SUPARCO

- Complete suite of fleet management, covering tracking, navigation, parking, monitoring, & driving analysis

Sprint, SUPARCO

- Naval Fleet Management solution having nautical navigation, positioning & nautical geofencing.