

Furqan Ali

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Experience

YAHOO | Seoul, S.Korea

AI Engineer (Remotely Part time) | 07/2022 - Present

- To build a recommendation engine that can recommend best tutor for the child based on his activities, hobbies, interest, likes and dislikes. **(used tensorflow and pytorch)**
- Working on Neural Collaborative model, and hybrid model such as LightFm. **(used tensorflow and pytorch)**
- Also working parallelly on introducing Learn-to-earn blockchain model into the Yahoo app. **(used solidity and web3)**
- Reference contact point: joon@yaho.life (CTO YAHOO LAB)

CCR LAB | Goyang-si

ML Research Engineer | 12/2020 - 08/2022

- Develop web & mobile apps that can trace covid patients and then generate alert once an infected person comes in contact with the non-infected person. **(used flutter and nodejs)**
- Developed Prioritized maintaining user privacy. For the user privacy, I used beacon concept. **(used flutter and nodejs)**
- Encrypt user personal information.
- Developed multivariate forecasting models that can predict COVID-19 **(used tensorflow & pytorch)**
- Detection of human activities across train, buses, cars, handwashing, touching mouth, etc. **(tensorflow & pytorch)**
- Project github: <https://github.com/CovidTrackerApp>

Freelance Engineer | Seoul

Infrastructure Engineer (Part time) | 09/2021 - Present

Worked with many big tech clients and provided them network plus desktop/application side support, managed their infrastructure which includes:

- Fixing any network and connectivity issues that could crop up, detecting system and application issues, and ensuring the smooth flow of data and voice throughout the organization.
- Updating hardware required for maintenance of servers and the network.
- Manage the security of computer systems and inter-application information transfers.
- Upgrading and improving operating environments, creating repair strategies, and providing technical support and training for users.
- Responding effectively and speedily to any problems.
- Updating any software and hardware where necessary.
- Documenting all reported malfunctions and actions taken in response.

Who are my clients/contractors:

1. Google (furqana@google.com)
2. Lenovo MSCI (f.ali@fotitude-nicsa.com)
3. Goldman sach
4. Fonterra (alifurqa@fonterra.com)
5. Excis (v-furqan@excis.com)
6. BMS
7. HCL (alifur@hcl.com)
8. Digitalsmarthands (furqan.ali@digitalsmarthands.com) etc...

IBEX | Karachi, Sindh

NLP Engineer Intern | 10/2020 - 12/2020

- Developed a smart chatbot for e-commerce platform that can generate quick autonomous replies by seeing the ongoing chat with customers. **(RASA & pytorch)**
- Developed recommendation system (Collaborative, Content and Hybrid Engines e.g. LightFm) **(Tensorflow)**
- Recommend replies.
- Worked on Dialogflow and Rasa to develop chatbots

ReliefMe | Karachi, Sindh

Co-Founder & Dev Team Lead (Part time) | 02/2020 - 09/2020

Collaborated with silicon valley non-profit tech startup named Virufy. My key responsibility include:

- Design an end-to-end deep learning pipeline that can predict whether the user is infected with COVID-19 or not by using their recorded cough samples and historical disease data.
- Lead the overall development of the product, handled frontend team, worked with backend team and personally developed AI pipelines. (**Tensorflow & pytorch**)
- Additionally worked on signal processing and many filters for noise removal such as Kalman filter, high pass, low pass etc.
- Github: <https://github.com/ReliefMe>

Kodershub | Karachi, Sindh

Machine Learning Engineer (Part time) | 03/2018 - 02/2020

- **From April 2018 - 2019**, I worked as an embedded system Engineer and designer. My role was to:
- Developed low-cost complete home automation circuit. Worked on Atmel microcontrollers such as stm32 etc, for developing autonomous drones.
- **From March 2019 - September 2020**, I worked as an ML Engineer. My task include:
- Scrape data from different websites, and store it on the server for preprocessing.
- Design and code text classification and generation GAN DL pipeline and deploy it into production.

Links

LinkedIn : <https://www.linkedin.com/in/furqan4545/>

Github : <https://github.com/furqan4545>

Youtube : <https://www.youtube.com/channel/UCNx-7EFBddMaq3P6zET6Y9Q>

Blogs: <https://furqanali.com>

Medium articles: <https://medium.com/@furqan.ali9500>

Research Publication

Furqan Ali, Farman, Junaid, Jebran, Wasay and Sungchang Lee. "COVID-19 Spread Control Policies based Early Dynamics Forecasting using Deep Learning Algorithm." Chaos soliton and fractal (2022): 0960-0779 / 1873-2887. [SCIE, IF:9.94]

Junaid I, Jebran K, Furqan Ali,... Sungchang Lee. "Artificial Intelligence and Internet of Things (AI-IoT) Technologies in Response to COVID-19 Pandemic: A Systematic Review" IEEE Access

Abdul wasay, Farman, Jamshid, Junaid, Furqan Ali, Sungchang Lee. "Mobile sensors based platform of Human Physical Activities Recognition for COVID-19 pandemic spread minimization" Computers in Biology and Medicine

eBus Services Solution: Using eBus Services Solution, Book Anywhere to Save Time

<https://bit.ly/FurqanIEEE>

Community Services

Co-Founder & Dev Team Lead

- ReliefMe.org (Feb 2020 to Oct 2020)
- An open source COVID-19 detection web application. (<https://bit.ly/3co4cbE>)
- <https://github.com/ReliefMe>
- (<https://bit.ly/3ooSjFi>)

Developer Student Clubs (SSUET) by Google Developers

- Speaker & AI Team Lead (<https://bit.ly/3RWR6Cs>)
- March 2019 - December 2019

Microsoft Student Ambassadors (SSUET)

- Team lead, Trainer & Speaker (<https://bit.ly/3vb04m6>)
- Jan 2020 - Oct 2020

Tool Expertise

- C & C++
- Python, Java, Nodejs, Golang, React Native, Flutter, Php **(Experienced)**
- Computer vision (LSTMs, CNNs, GANs, graph networks and Transformers)
- Web3 (MERN Stack)
- Tensorflow, Keras & Pytorch **(Experienced)**
- Cloud Computing (GCP | AZURE | AWS) **(Experienced)**
- MLOPS
- Full Stack Web Developer (JS/Nodejs) **(Experienced)**
- Microcontrollers Programming (Stm32 series, Arduino series)
- Git Version Controlling
- Worked on all types of databases (SQL, NoSQL)
- MongoDB, mysql, postgresql, dynamodb, Firebase etc **(Experienced)**
- Flask & Django
- Docker & Kubernetes
- Mobile application (Flutter and ReactNative)

Education

KAU | Goyang-si, S.Korea

MS (Computer Information and Graph Networks) | CGPA: 3.75 | 08/2022

SSUET | Karachi, Sindh

Software Engineering (Major in AI) | CGPA : 3.01 | 10/2020

- Served as President of Student Council for the 2018 to 2020 academic year