



SHUJATH KHAN

Researcher | AI/VR Developer | Full Stack Developer

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WORK EXPERIENCE

Infosys (Jan '18-Present)

Part of Research and Innovation team - Lab42.

Key projects undertaken:

- Developed an **AI-enabled** smart mirror from ground up, which included **facial recognition**, **voice** and **gesture control** and a centralized cloud control for updates and maintenance. [Built with two tech stacks, Alexa+AWS and the other Intel+AWS]
- Contributed to a proctoring web application by implementing an **object detection** and **recognition API** to detect any form of suspicious activity.
- Retail store web application** powered by Alexa's voice service.
- Cloud enabled web application that provides **statistical analysis** of the growth and attrition rates of a division of the firm.
- Developed a software **search engine web application** using **keywords** which saved time for the employees and is currently being used by the entire company.

Other notable projects:

- Developed **micro-services** using various databases (like PSQL, mongoDB) and back-end technologies (like ADO.NET, NodeJS, Flask) for various firms and hackathons.
- Developed **e-services portal** for my university that automatically creates PDF version of the certificates and includes an e-sign feature.
- Automated Learning management system** which also includes a **DMS** (Document management system), estimated to reduce 50% of educator's workload. It also consists of one of a kind multi-variant **quiz portal**.
- Real-time human posture recognition system**, developed as part of my major project, completely built from ground up and currently recognizes standing and sitting postures.
- Statistical analysis and visualization of iris and many other datasets using R.
- Developed a POC, **Music playback** using **emotion** recognition using Tensorflow.

Codbello (Aug '17-Jan'18)

- Contributed to the development of an educational web application for a university.
- Contributed to the development of an NGO based web application.



EDUCATION

SRM University, Chennai (2018)

B.tech IT | CGPA: **8.7**



ACHIEVEMENTS

Published papers:

- Real-time Human Posture Recognition** in Journal of Emerging Technologies and Innovative Research. [bit.ly/2AwSpST]
- Autonomous Smart Waste Collection System** using IoT. (IEEE) [bit.ly/2RmNU6H]

Achieved **zonal level** ranking in **India's Biggest Networking championship** by I-MEDITA and CISCO.

Completed a specialization course on **Advanced Machine Learning using Tensorflow** with GCP by **Google cloud**.

Microsoft certified in Programming with HTML5, CSS3 and JavaScript.



TECHNICAL SKILLS

Languages

Python, JavaScript, Typescript, Java, R

AWS

Lambda, S3, EC2, DynamoDB, VPC, Alexa, Transcribe, Rekognition, Comprehend, SageMaker, RDS

Stack

MEAN

Databases

MySQL, SQL,

MongoDB,

FireStore

Front-end

Angular 6+,

ReactJS,

VueJS, JQuery

Back-end

Flask,

ADO.NET,

NodeJS

Other skills

Deep learning with Tensorflow, Keras, WebVR(Aframe+Threejs), Hadoop, OpenCV, RasPi, Movidius, Git, DialogFlow, Tornado, REST APIs, Shell scripting, Android studio, Mentor, Public Speaker, Graphic designer.