SHUJATH KHAN

Researcher | AI/VR Developer | Full Stack Developer

📞 +91 82482 19416   ✉ shujathkhan@live.com
🐙 github.com/shujathkhan   🔗 linkedin.com/in/shujath-khan
Ⓗ hackerrank.com/Xukah   🌐 shujath.me

💼 WORK EXPERIENCE

Infosys - Systems Engineer [Jan '18-Present]

Part of Research and Innovation team - Lab42. Key projects undertaken:

- Contributed to the development of an **AI-enabled** smart mirror from ground up. My contributions included developing an accurate **facial recognition model** using Intel Movidius on Raspberry Pi, **Voice recognition (hotword detection + AWS Lex bot)** and **gesture control using computer vision** and UX design of the interface along with telemetry for event capturing. [Built with two tech stacks, AWS Rekognition+Alexa and the other Intel+Lex]
- Contributed to a proctoring web application. My contributions include implementing an **object detection** and **recognition model**, developing **APIs and Interface using Flask** to detect any form of suspicious activity.
- **Retail store web application** powered by Alexa as a voice service. My contributions include developing the entire UX design and front-end for the web application.
- Cloud enabled web application that provides **statistical analysis** of the growth and attrition rates of a division of the firm. This was a solo project in which I was responsible for the back-end to front-end, UX design, deployment and data analysis along with client interaction to formulate the approach from their requirements.
- Contributed to the development of **PQSI** based sleep **survey web application** for the HR department. My primary role was focused towards front-end design and development and a little bit of back-end development.
- Developed a software **search engine web application** using **keywords** which saved time for the employees and is currently being used by the entire company. This was a solo project.

Codbello Software Solutions Pvt Ltd. - Front-end developer Intern [Aug'17-Jan'18]
Contributed to the development of an educational web application for SRM University.

Other notable works:

- **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.
- Developed a POC, **Music playback** using **emotion** recognition using Tensorflow.
- 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. Its currently being used campus-wide.
- **Automated Learning management system**   which also includes a **DMS**, estimated to reduce 50% of educator's workload. It also consists of one of a kind multi-variant **quiz portal**, this application is currently being used by the university educators.
- Developed an Instagram like **social media** platform as a side project.

EDUCATION

SRM University, India (2018)
B.tech IT | CGPA: **8.7**

← **KNMS**, India (2014)
STEM | Percentage: **83%**

← **Sharjah Indian School**, U.A.E (2012)
STEM | CGPA: 9.4

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, Trasnscribe, Rekognition, Comprehend, SageMaker, RDS

Stack	Databases	Front-end	Back-end
MEAN	MySQL,SQL,	Angular 6+,	Flask,
	MongoDB,	ReactJS,	ADO.NET,
	FireStore	VueJS, Jquery	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.

CLUB ACTIVITIES

- Centre of Applied Research in Education (SRM University) - Student Mentor   OCT `16 – JAN `18
  An e-services application for automating the student certification process
- Think-Digital (SRM University) - Advisor   JAN `17 – MAY `18
  Took the helm in mentoring budding developers by means of workshops in college premises
- Google Developer Students' Club - Creative Mentor   JAN `16 – MAY `18
  Pivotal part of the creative design committee, organized zero budget events