



## SHUJATH KHAN

Researcher | AI/XR Developer | Full Stack Developer

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### WORK EXPERIENCE

EY - Senior Associate [Jan'20-Present]

Role: Front-end Engineer

Key projects and responsibilities undertaken:

- Contributed to **three major product lineups** of EY which are majorly used by **GAFM** and other big tech firms and banks .
- Practiced **SAFe** and GAFM level of **accessibility** based front-end development Developed major features and individually resolved over **200+** accessibility bugs.
- Contributed in the development of a **UI component library**, currently a standard for EY products.
- Currently acting as a **lead** front-end developer on one other product releases of EY.

Infosys - Systems Engineer [ Jan'18 - Dec '19 ]

Role: R&D Engineer, Research and Innovation team - Lab42.

Key projects undertaken:

- Developed an **AI-enabled smart mirror**. Contributed as lead developer, developed an accurate **facial** recognition model used on Raspberry Pi, **Hot word** recognition, VaaS and **gesture** control using **OpenCV** and UI/UX design of the interface along with telemetry. **AWS Rekognition** and **Alexa** tech stack proved 85% performed better than **Intel Movidius**, **AWS Lex** and **Snowboy**.
- Developed a remote proctoring web application. Contributions include implementing an **object detection** and **recognition model**, developing **APIs and Interface using Flask** to detect any form of suspicious activity and displaying in an Admin dashboard.
- **Retail store** web application powered by **Alexa** VaaS. Contributions include developing the entire UI/UX design and development.
- Contributed as a **lead** developer for a platform that provides **statistical analysis** of the growth and attrition rates of a division of the firm. Contributions include developing back-end services, front-end UI/UX design and development, deployment and server management, pitching to POs and creating stories for an agile development cycle.
- Contributed to the development of **PQSI** based sleep **survey** portal for the HR department. Developed **motion** UI/UX design and development.

Other notable works:

- **Real-time human posture recognition** system, developed as part of major project. It currently recognizes standing and sitting postures.
- Developed **e-services portal** for university that auto-generates a PDF version of the certificates and includes an e-sign. Its currently being used campus-wide by over 50000+ students.
- **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.



## EDUCATION

**SRM University, India (2018)**  
B.tech IT | CGPA: **8.79**



**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 with over 1500+ views. [ [bit.ly/2AwSpST](https://bit.ly/2AwSpST) ]
- **Autonomous Smart Waste Collection System** using IoT. (IEEE) [ [bit.ly/2RmNU6H](https://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.

Various **Udemy** courses in Machine learning, Artificial Intelligence, Web development, Unit Game/VR development.



## TECHNICAL SKILLS

### Languages

Python, JavaScript, Typescript, Java, Kotlin

### AWS

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

### Stack

MEAN

MERN

### Databases

MySQL,

MongoDB,

Firestore, PSQL

### Front-end

Angular 6+,

ReactJS, VueJS,

Jquery

### Back-end

Flask,

NodeJS,

.NET

### Other skills

Deep learning with Tensorflow, Keras, WebVR(Aframe+Threejs), OpenCV, RasPi, Movidius, Git, DialogFlow, Tornado, REST APIs, GraphQL, Shell scripting, Android app development, Pepper QiSDK Robot App development, Mentor, Public Speaker, Graphic designer.



## CLUB ACTIVITIES

- **Centre of Applied Research in Education (SRM University)** - Student Mentor [Oct'16 - Jan'18]  
Researching new ways to improve education system using technologies like platforms, OCR and DMS
- **Think-Digital (SRM University)** - Adviser [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