# ANUJ SHAH

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## EDUCATION

**IIIT-Bangalore** *2018 - 2020*
M.Tech CSE CGPA : 3.75 / 4
**Mukesh Patel School of Technology,Management and Engineering** *July 2014 - May 2018*
B.Tech, Computer Engineering. CGPA : 3.6 / 4

## EXPERIENCE

**Microsoft** *August 2020-Present*
*Software Engineer (To Do backend team)*

- As part of migrating our service to a new .NET core based SDK:-
  - Designed and implemented the telemetry module as well as key pieces of the data pipeline
  - Led the rollout and traffic cutover of our high scale backend service while maintaining **greater than 99%** service reliability and no P0/P1 issues reported
  - Implemented some of our major APIs (eg:- attachments, MyDay, etc) to work with the new .NET core framework
  - Was a key component of the team that shipped this project and contributed immensely in all phases of the project from planning, design, implementation, validation, deployment and quality control.
- Designed and implemented a feature which significantly improved response time in case of privacy incidents. The time taken to stop the collection of bad data **reduced to just 16%** of the previous time
- Planned, designed and implemented a project to improve our testing infrastructure which reduced testing time by **around 50%**.
- Have played an active role in mentoring other folks on the team such as freshers, new joiners and interns.

**Microsoft** *May 2019 - July 2019*
*SWE Intern*

- Designed and implemented JavaScript write APIs for Visio online significantly expanding Visios capability.
- Developed a Visio plugin to get data from ADO and render it in a tree structure using a custom layout algorithm. This plugin rendered the diagram using the edit APIs I developed and had an MVC architecture

## RESEARCH

### Publications

- Shreekantha Nadig, Sumit Chakraborty, Anuj Shah, Chaitanay Sharma, V. Ramasubramanian, Sachit Rao, "Jointly learning to align and transcribe using attention-based alignment and uncertainty-to-weigh losses," 2020 International Conference on Signal Processing and Communications (SPCOM), Bangalore, India, 2020

### Thesis

- Developed an end-to end hybrid CTC-attention multilingual ASR(automatic speech recognition) system using the encoder-decoder architecture using the ESPNet framework
- The multilingual system was able to improve the WER (word error rate) by 5% and 5.4% relative on English-French and English-Tamil speech respectively
- Despite seeing no code-mixed data during it's training process, the system was able to decode code mixed Tamil-English as well as French-English speech with very few errors in detecting language speech boundaries

## SKILLS

Backend architecture, REST APIs, C, .NET, Java, Spring Boot, Object Oriented Design, Azure Cosmos DB Android Development, Machine Learning, Automatic Speech Recognition, Python, ESPNet, Kotlin, RDBMS, NoSQL