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

Software Engineer 2 (Microsoft ToDo)   *August 2022 - Present*

- Designed and implemented a solution to drastically improve mitigation time in case of privacy incidents. The time taken to stop the collection of bad data **reduced to just 16%** of the previous time

- Played an active role in mentoring other folks on the team such as freshers, new joiners and interns

Software Engineer (Microsoft ToDo)   *August 2020-July 2022*

- 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 part 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.
- Planned, designed and implemented a project to improve our testing infrastructure which reduced testing time by **around 50%**.

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 (SP-COM), 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, MongoDB