

# ANUJ SHAH

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## SKILLS

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C#, .NET, Java, Spring Boot, Hibernate, Object Oriented Design, REST APIs, Microservices, Message Queues, CI/CD, Android Development, Machine Learning, Speech Recognition, Python, ESPNet, Kotlin, MySQL

Familiar with:- React, MongoDB, Flutter, Docker, Django, Jenkins, Elasticsearch, Logstash, Kibana

## EXPERIENCE

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### 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
- Refactored and re-designed various components of our codebase to improve code extensibility, maintainability and testability
- 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 a lot of major APIs like FileAttachments, MyDay, Extensions, LinkedEntities, etc.
  - 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%** while also providing better isolation for each developer.
- Implemented graph APIs for extensions and linked entities. Microsoft Graph is a RESTful API that allows third parties to access data in the Microsoft cloud.

### Microsoft

*SWE Intern*

*May 2019 - July 2019*

- 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

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### 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-weight 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 (185 hours of training data) and English-Tamil (67 hours of training data) speech respectively
- Despite seeing no code-mixed data during its training process, the system was able to decode code mixed Tamil-English with a **CER (character error rate) of 11.5% and a WER of 35.2%** with very rare errors in detecting language switch boundaries

## EDUCATION

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### IIIT-Bangalore

M.Tech CSE

*2018 - 2020*

CGPA : 3.75 / 4

### Mukesh Patel School of Technology, Management and Engineering

*July 2014 - May 2018*

B.Tech, Computer Engineering.

CGPA : 3.6 / 4