

# ANUJ SHAH

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## EDUCATION

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**IIIT-Bangalore**

M.Tech CSE

2018 - 2020

CGPA : 3.75 / 4

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

B.Tech, Computer Engineering.

July 2014 - May 2018

CGPA : 3.6 / 4

## SKILLS

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REST API, Object-Oriented Design, C#, .NET, Java, Spring Boot, Android Development, Deep Learning, Machine Learning, Automatic Speech Recognition, Python, Android Development, RxJava, Reactive Programming, ESPNet, PyTorch, Data Science, Cloud Development

## WORK EXPERIENCE

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**Microsoft**

*Software Engineer (To Do backend team)*

August 2020-Present

- Microsoft Graph is a RESTful Web API that allows third parties to access Microsoft cloud resources. I was an integral part of the team that designed, developed and shipped the task graph APIs
- Worked on migrating the entire backend service to .NET core and a new SDK. As part of this migration:-
  - Helped in re-designing and rewriting large chunks of the code base to work with the new tech stack
  - Owned the logging and instrumentation horizontal of the service. Worked on modifying the data pipeline to ensure that this new service's metrics and logs are correctly emitted to Azure Cosmos for business metrics computation.
  - Led the stable rollout of our backend service which handles approximately 5 million requests per minute from various 1P and 3P clients
- Single-handedly on-boarded our service to a new test environment which reduced the debugging and testing time of developers by over 50%

**Microsoft**

*SWE Intern*

May 2019 - July 2019

- Designed and implemented JavaScript edit APIs for Visio online which significantly enhanced Visio's programmability
- To demonstrate the functionality of this enhanced API set, I developed a Timeline AddIn that fetches task data from Azure DevOps using the ADO API and displays it in a hierarchical timeline diagram on the Visio canvas

**Version Next India Pvt Ltd**

*Android Developer Intern*

June 2016 - July 2016

- Designed and developed a taxi aggregation app which allowed users to book rides, get fare estimates and view ride history.
- Developed the native Android frontend and integrated it with Google Maps API's for powering functionality in the app.
- Developed the backend service using PHP and MySQL

## RESEARCH EXPERIENCE

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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

- Using the ESPNet framework developed a deep learning based hybrid CTC-attention multilingual ASR(automatic speech recognition) system.
- The system was able to achieve results comparable or better than its monolingual counterparts.
- Despite seeing no code-mixed data during its training process, the system was able to decode code mixed Tamil-English as well as French-English speech

## PROJECTS

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### Rossmann Store Sales

- Machine Learning course project to predict the sales of Rossmann stores in Europe.
- Learnt the entire ML pipeline from data cleaning, EDA, feature engineering, feature selection to model building, cross validation, regularization and model evaluation.
- Tested out various algorithms like Linear Regression, Lasso regression, to XGBoost. Finally used the XGBoost algorithm which resulted in 2nd place in this competition.