ANUJ SHAH

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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 entire instrumentation module of the service. Implemented changes to the Azure based data pipeline for capturing business telemetry.
  - Planned and led the stable rollout and traffic cutover of our high scale backend service without any major exceptions.
  - Designed and implemented large parts of the code base to work with the new SDK and .NET core standards.
- I was an integral part of the team that designed, developed and shipped the Tasks graph APIs. Microsoft Graph APIs are RESTful APIs enabling third party developers to access Microsoft Cloud resources.
- Planned, designed and implemented a project to improve our testing infrastructure. As a result of this the testing and debugging time reduced by **around 50%** and improved dev agility

Microsoft *May 2019 - July 2019*
SWE Intern

- Designed and implemented JavaScript edit APIs for Visio online. These APIs were developed in C# which later transpiled to JavaScript
- Using the above developed APIs developed a MVC architecture based Visio Add-In which fetches data from Azure DevOps and displays it in a tree like timeline using a custom layout algorithm.

Version Next India Pvt Ltd *June 2016 - July 2016*
Android Developer Intern

- Designed and developed the Android frontend of a taxi aggregation app. Integrated the app with Google Maps APIs to power location functionality in the app
- Developed the backend APIs of the app using PHP and MySQL

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

RESfTful APIs, C#, .NET, Java, Spring Boot, Android Development, Deep Learning, Machine Learning, Automatic Speech Recognition, Python, Android, RxJava, Reactive Programming, ESPNet, PyTorch, Data Science, Cloud Development, Kotlin, NumPy, RDBMS, MySQL, MongoDB, NoSQL, Hibernate, PyTorch, ESPNet

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

PROJECTS

Rossman Store Sales

- Machine Learning course project to predict the sales of Rossman stores in Europe.
- Implemented 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.