Manish Patel

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EXPERIENCE

Google LLC

Mountain View, CA

Mobile: +91-8800824132

September 2019 - December 2019

Email: manish.patel.mnnit@gmail.com

Software Engineer Intern

• Data augmentation for IA model: Designed and implemented data augmentation techniques to increase performance of Intent Argument model of voice assistant by 14% for low traffic intents.

Centre for Development of Telematics

New Delhi, India

August 2013 - August 2018

Research Engineer

• Emergency Call Session Control Function: Researched, designed and implemented E-CSCF server of IP Multimedia Subsystem to handle the emergency calls in the network.

- Proxy Call Session Control Function: Optimized the code by modifying data structures and removing
- redundancies to increase the performance of the server by about 6% (120 calls per second).

 Attendant Console System: Designed and implemented SIP-enabled VoIP application using Java and JAINSIP stack which allowed users to handle multiple lines concurrently.
- Session Border Controller: Implemented a lightweight Command Line Interface using readline library for remote configuration and management of SBC; Created fault-tolerant and highly available systems for MAX-NG systems.
- Release generation: Streamlined the release generation by creating automated tests and providing single interface for updating TARs and patch generation.

EDUCATION

Texas A&M University

College Station, TX

Masters in Computer Science; GPA: 4.0

August~2020

Motilal Nehru National Institute of Technology

Bachelor of Technology in Computer Science and Engineering; GPA: 3.56 (8.31/10.0)

Allahabad, India July 2009 – May 2013

LANGUAGES AND TECHNOLOGIES

- C++, Python, Java, C, Bash, HTML, Javascript
- Linux, AWS, GCP, Android Studio, Spark, Ruby-on-Rails

TECHNICAL EXPERIENCE

- Emotions On Cloud: Designed and deployed an active-learning based ML framework on Google Cloud; learns from the feedback given by user in real-time; May 2020
- Neurite reconstruction of 3D images: Designed and implemented techniques of 3d segmentation for neurite reconstruction from boundary maps- CREMI Challenge; July 2019
- TinySearch: Developed a semantics based search engine using BERT embeddings in Neural Networks project; achieved a Precison@14 score of 0.533; May 2019
- As You Like It: Designed and implemented a personalized book recommender system using summary embeddings and improved efficiency by 0.42%(RMSE) of User-Item Collaborative Filtering and by 1.12%(AUROC) of BPR; May 2019
- Real-time Face detection and Emotion classification: Studied, implemented, and compared the LBPH, PCA and Fisherface algorithms for face recognition and integrated it with emotion classifier to create real-time app; Nov 2018
- Determination of PSAP and Routing of Emergency Calls in IMS: Co-authored a research paper on alternative mechanism for routing emergency calls in IP Multimedia Subsystem; IEEE-ANTS 2017

Additional Experience and Awards

- Bumblebee: A Smartkey to your Car: Awarded 2nd prize in TAMUHack for developing android app for smartcar; Jan 2019
- Deployment of Broadband through NGN: Trained in broadband deployment technologies by ITU, Asia Pacific; Nov 2017
- Competent Communicator: Awarded by Toastmasters International for competent public speaking; August 2018
- Best Performer: Awarded Best Employee of the Year award in the Call Processing Group in C-DOT; July 2016