Mayank Anchlia

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Education

Birla Institute of Technology & Science (BITS), Pilani **Aug 2014 – May 2018**
B.E. (Hons.) Computer Science, GPA: 7.2 Goa, India

Experience

Samsung Research Institute Bangalore – Senior Software Engineer **Jun 2018 - Present**

- Intelligent Human Pose Recommendation using Tensorflow
  - Leveraged skeleton data to **classify and recommend the best pose** possible based on the background scenes and objects
  - Devised a **novel way** for background analysis to get low-level features which could be used to recommend the best possible pose.
  - **Filed patent application in the US and India,** which is under review
- Camera Lite SDK
  - A lightweight SDK to provide Third-Party Camera Apps similar image quality as that of Samsung Camera App
  - **3 billion captures** till date using the solution on a global scale
  - High-level and low-level design and development of SDK
- Text to Video Emoji Content Generation using Tensorflow
  - An unsupervised recurrent neural network to find contextual and physical features from **articulated text**
  - Full-body tracking model to find body points and animate it according to temporal data from text. Got **88% accuracy** compared to Text to Speech method.
- Google Camera X Extensions
  - Design and Implementation of the framework to provide developers to access Samsung specific image processing solutions such as **HDR, night, Bokeh**
  - Contributed various interface designs which finally went to **AOSP**. Implemented Vendor Extension for use case realization.
  - Co-worked with Google for a successful **Google I/O** and **Samsung Developer Conference Demo.**

Internships and Projects

- **Samsung Research Institute Bangalore** **Jul 2017 – Dec 2017**
  - Source Code Translation from Microsoft UWP to Tizen Platform
  - Designed and developed a toolkit to automatically translate the application code from one platform to another specifically Microsoft UWP to Tizen Platform
  - The work was based on Roslyn, XAML, C#
- **3D modelling and navigation in VR using Leap Motion Sensor.** **Jan 2017 - Apr 2017**
  - Created a more intuitive way to interact with a computer in VR using Leap Motion Sensor to track hands, and sensor data of a mobile phone to localize hands, track head and set the orientation of the player.
  - It detects Hand gestures to track inputs from the user and recognizes it.
  - Used Unity game engine to design the application
- **Teaching Assistant for Department of CS & IS, BITS PILANI** **Jan 2017 - May 2018**
  - Served as a TA for the course Software Development for Portable Devices and Computer Networks under Prof. Sreejith V. My work involved setting lab questions and conducting tutorial sessions based on Arduino, raspberry pi and making problem sets for the same

Major Recognitions

- Awarded Jury's **Best Project Award** in Nipun 2018 (Samsung Innovative Project contest) for Arbitrary Style transfer on device
- **Ranked First** in **Cyber Security Hackathon 2020** organised by Samsung Research.

Skills

Languages: Python, Java, JavaScript, C++, SQL, Bash, HTML/CSS

Frameworks/Libraries: Tensorflow, scikit-learn, Pandas, Numpy, neo4j, d3.js, SQLite, nltk

Others: Git, Linux, gdb, Adobe Photoshop, After Effects, Premiere Pro

Voluntary Work

- Directed and Edited a short Movie *'Hasrat'* inspired by Mulholland Drive with a team of 7
- Member, Placement Unit, BITS Pilani, Goa Campus - Got 600+ students placed in a period of three months.
- Member, Red-Quark, BITS Pilani- Started a nationwide blood donation initiative called '*Red'* that met with phenomenal success all over the country