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Siddhant Jain

EDUCATION

Carnegie Mellon University
Robotics Institute
MS in Computer Vision | CGPA: 4.11/4.33
Expected Graduation: Dec 2018
Courses: Computer Vision, Machine Learning, Visual Learning and Recognition, Fundamental Mathematics for Robotics

Birla Institute of Technology and Science, Pilani [India]
BE in Computer Science
MSc. in Economics
August 2010 - June 2015
Courses: Parallel Computing, Machine Learning, Artificial Intelligence

PATENTS

Method and apparatus for real-time matting and despilling using local color estimation and propagation | Issued: 10/10/2017

Creating Personalized Catalogues with Recommendations Embedded in Augmented Viewpoint to Retarget Consumers | Filed 10/31/2016

Removing Overlays from a Screen to Separately Record Screens and Overlays in a Digital Medium Environment | Filed 11/14/2016 (First Inventor)

ACTIVITIES

Magic Green Screen: An introductory talk on background replacement in videos
Adobe Tech Summit 2017 | San Jose, CA

Care, Cambodia: Pro-bono teacher training for education technology
Adobe and Team4Tech | Ban Lung, Cambodia

SKILLS

Languages: C++, C, Python
Frameworks/Platforms: Android, OpenCV, MATLAB, Unity, AWS, Android, Perforce, Cocoa, Win32 API

PROFESSIONAL EXPERIENCE

Adobe Systems, Bangalore | *Member Of Technical Staff 2*
JULY 2015 - AUGUST 2017

- Invented and developed a real-time background removal system for webcam videos for 2015 release of Adobe Presenter Video Express. (USPTO patent granted)
- Invented and developed an industry first alpha-blending based technique for removing recording cues from screen recordings. (USPTO patent application filed as first inventor)
- Developed a framework for 3D object placement, room scanning in C# to be used in Hololens language learning game
- Mentored interns on AR application development using Unity and Vuforia for 3D style matching based recommendations

Awards: Innovation Excellence Award, in recognition of filing for multiple patents and pioneering creative projects

Dell EMC, Bangalore | *College Intern*
JAN 2015 - JUNE 2015

Worked on a hybrid cloud monitoring solution for on-premise and cloud infrastructure on Google Cloud and AWS.

Adobe Systems, Bangalore | *Summer Intern*
MAY 2014 - JULY 2014

Built an ensemble of classifiers to perform background-foreground segmentation in human-centered webcam videos.

PROJECTS

3D point cloud segmentation and recomposition
Sponsor: Velodyne Lidar | Advisor: Prof. David Held, Prof. Michael Kaess
Developing a 3D point cloud manipulation tool with a focus on interactive segmentation of 3D point clouds

Data Augmentation using semantic segmentation
Devised and implemented a novel method for data augmentation in object detection tasks by using semantic segmentation labels, improving classifier accuracy by ~10%

Dynamic Classification
Undergraduate Thesis | Advisor: Prof. Navneet Goel (BITS, Pilani)
Developed a framework for detecting the need for splitting or merging class definitions in machine learning contexts

Spam detection for short texts
Developed an SVM based classifier for short-text classification for messaging app which won the Microsoft Code.Fun.Do 2014 hackathon