

PROJECTS

VR + MR

- **Shoot-the-Hoop:** Building a multi-user first-person 3D basketball game in VR (Google Cardboard) (2017)
- **Live Face Swapper:** Snapchat-type filters for face swapping in real time. (2017)
- **DisastARcons:** Mixed Reality solution (product) for disaster response. (SEA VR IV, 2016)
- **Zombie Apocalypse:** Shot and acted in a 360° movie based on zombie apocalypse. (2016)
- **360° Ethnography study:** Conducted a 2-month ethnography study across 4 metropolitans in India on its VR and 360° video market. (2016)
- **VR Tourism:** Shot 360° footage in museums and other historical sites in New Delhi and Agra. (2016)
- **Memory Game:** Mixed Reality app for kids to enhance their memory. (HoloHacks, May 2016)
- **Solar System Simulation:** VR app for Google Cardboard for exploring the solar system. (2016)
- **MindPalace:** Virtual Reality Environment to store memories. (SEA VR II, 2015)

Machine Learning + Computer Vision

- **Image Montage:** Computer vision (CV) project to create a montage using OpenCV. (2017)
- **Face Recognition:** Recognizing human faces using Machine learning and CV. (2017)
- **Expression detector:** CV project that recognizes human facial expressions using deep learning. (2016)
- **Activity Monitor:** CV project that recognizes simple human activities in a picture/ video feed. (2015)
- **fMRI Brain Imaging:** Created a model that was trained to infer an object's name from its corresponding fMRI scan. (2014)
- **Stock Market Swings Prediction** (Attempted ☺): Performed regression, TF-IDF & sentiment analysis on sanitized Twitter data. (2013)

Design (Web + Mobile)

- **AfterParty:** Repurposed vending machine to solve post-party needs in Las Vegas. (2013)
- **SafePath:** Mobile app to increase pedestrian safety at night (Facebook Hackathon). (2012)
- **MoodLog:** Mobile app design to track mood of the user and provides feedback. (2012)

Research

- **Ethnography:** Role of various Tahitian medical systems in defining the native population's cultural identity. (2014)
- **PATH:** Improved maternal and neo-natal health in rural India. Published a [note](#) at International Conference of ICDDT, South Africa. (2013)

Data Analysis & Visualization

- **Crisis Clinic:** Created dashboard for enabling the Leadership with effective resource allocation and planning. (2014)
- **Infant Mortality in Africa:** Identified factors of infant mortality via visual analysis of world economic data. (2014)
- **Textual Analysis:** Researched the nature of mentorship on fanfiction sites. Created dashboards for visual analysis. (2014)

Business

- **MyPS Bank:** Business plan for public access to stem cell tech. Won scholarship from Kick Incubator, Seattle. (2014)
- **U-Surance:** Business plan on reducing health insurance premiums for college students. (2013)
- **ClonoSEQ:** Technology Diffusion plan for MRD Detection of Leukemia for Adaptive Biotechnologies. (2013)

For details, please see [here](#).