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AMBIKA YADAV

DATA VISUALIZER | CREATIVE DEVELOPER

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ABOUT

An interdisciplinary developer looking for opportunities to design, prototype and develop user-centered informative applications and experiences using emerging technologies.

EDUCATION

MS MEDIA ARTS AND TECHNOLOGY

University of California, Santa Barbara- CA
2015 - 2017

BE ELECTRONICS AND COMMUNICATION

Manipal Institute Of Technology, Manipal
2010 - 2014

SKILL SET

Web Technologies

HTML5 | CSS | JAVASCRIPT

Frameworks and Libraries

D3 | P5 | THREE | ANGULAR | REACT
AJAX | JSON | JQUERY | OPENGL | OPENCV
WEBGL |

Programming Languages

PYTHON | C++ | PROCESSING (JAVA) | SQL

Tools

UNITY | ARDUINO | KINECT | VIVE
ADOBE CREATIVE SUITE | GITHUB
AUDACITY | INVISION

REFERENCES

Prof. George Legrady

Chair, Media Arts & Technology Program
Distinguished Professor, Interactive Media
University of California Santa Barbara
legrady@mat.ucsb.edu

Mr. Sankar N Krishna

Assistant Vice President
Think and Learn (Byju's), Bangalore
sankar.krishna@thinkandlearn.in

<https://github.com/akibmayadav>

<https://www.linkedin.com/in/ambika-yadav/>

WORK EXPERIENCE

TEACHING ASSISTANT

University Of California Santa Barbara, CA | Jan 2017 - March 2017

- Assisting the graduate class for Algorithmic Information Visualization.
- Develop and Present Live Code Demos in Classroom.
- Improvise development process of student projects.

RELIABILITY DATA VISUALIZATION INTERN

Liquid Robotics, Sunnyvale, CA | June 2016 - September 2016

- Analysis and extraction of sensor data collected by deployed wave gliders.
- Prototyping and Development of a web-based interactive Data Visualization to visualize glider activity.

SENIOR CREATIVE ASSOCIATE

Think And Learn Pvt Ltd, Bangalore | June 2014 - June 2015

- Development of Interactive Digital Video Lecture series.
- Managed and Led concept-to-launch of the Ed-Tech Application.

SUMMER INTERN

Center Of Airborne Systems, Bangalore | May 2012 -June 2012

- Generating Visibility and Probability Diagrams in order to virtually simulate an efficient RADAR system using MATLAB.

PROJECTS

DATA VISUALIZATION

1. WaveGlider Visualization | Web-based tool to visualize waveglider sensor data on dymaxion projection.
2. City Of World | 3D WEBGL data visualization of world population density.
3. MUNI | Real-time visualization of San Francisco transit system.
4. Task Analysis Visualization | Visualization Of complex task systems.
5. Code Of Red | Processing based metaphorical visualization of wars.
6. Is the Sun Out | Visualizing correlation in activity and weather conditions in Seattle Public Library.
7. What is the Time | 3D Activity Frequency Visualization of Seattle Public Library.
8. Visibility Diagrams using Radar Simulation | MATLAB based tool to visualize visibility patterns of radars.

VIRTUAL/AUGMENTED REALITY

1. Kaleidoscopic Geodesic Dome | Interactive OPENGL simulation of Kaleidoscopic Patterns in Allosphere.
2. Kahaani | VR World Development for HTC Vive.
3. Magic Mirror | AR Application to augment moving objects on users face.

CREATIVE CODING

1. Virtual Ant Simulation | WEBGL based Convex Hull Implementation.
2. Glass Stain Filter | Python Based Image Filter using Voronoi Diagrams.
3. Digital Video Lecture | Interactive Video Lectures for Byju's App.
4. URTune | Android-based app to generate music from a sketch.