

AMBIKA YADAV

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Professional Summary

Data Visualization Designer and Engineer. I prototype and write code to develop visualizations which tell data stories. Looking for opportunities to utilize my skills to develop efficient user centered data visualizations.

Work Experience

Reliability Data Visualization Intern

Liquid Robotics, Sunnyvale, CA | Fall 2016

1. Wave Glider Sensor Data Collection, Cleaning and Exploration to conceptualize a visualization dashboard and methodology.
2. Prototyping and Front End Development of Visualization Dashboard using Dymaxion Projection on D3.

Senior Creative Associate

Think and Learn - Byju's, Bangalore, India | Summer 2014-2015

1. Development of one of its kind Edtech mobile app of interactive digital video lectures for Indian curriculum. (Motion Infographics)
2. Manage and lead Storyboard, Scripting and Development of content with a team of six associates.

Graduate Teaching Assistant- Information Visualization

University Of California - Santa Barbara | Winter 2017

1. Ideation, Creation and Development of Live Code Demos (SQL, Processing, P5.js)
2. Debug and Brainstorm development process of students' project.

Summer Intern

Center of Airborne Systems, Bangalore, India | Summer 2012

1. Developing visualizations of visibility and probability diagrams of RADAR system simulation using MATLAB.

Education

MS MEDIA ARTS AND TECHNOLOGY (STEM MAJOR)

University of California Santa Barbara, CA, USA
2015-2017

BE ELECTRONICS AND COMMUNICATION ENGG.

Manipal Institute of Technology, Karnataka, India
2010-2014

Skills

Web Technologies

HTML5, CSS, Javascript

Frameworks and Libraries

D3, P5, Three, Angular, React, AJAX, JSON, JQUERY, Node, OpenGL, OpenCV, WebGL

Programming Languages

Python, C++, Processing, SQL, MATLAB

Tools

Unity, Arduino, Kinect, Vive, Adobe Creative Suite, GIT, Google App Engine

Others

Information Design, Low and High Fidelity Prototype, Color Theory, Typography, Storyboarding, UX/UI, HCD, Design Thinking

Projects

IS THE SUN OUT Seattle Public Library Activity Visualization

1. Web-based Grid and Ebs Radial D3 data visualization of correlation of checkouts of Seattle Public Library and Weather conditions.
2. Data collection using Web Crawler developed using Beautiful Soup and SQL Queries for SPL Database.

MATDAN Government Data Visualization Platform for Electorate

1. D3 Data Visualizations for governance and political data using Radial Dendrogram Visualization for Multivariate Data, Streamgraph and Grid Graticule Radial Visualization. Data wrangling using Pandas library on IPython Notebook.
3. In collaboration with Trivedi Center of Political Data, Ashoka University.

CITY OF WORLD WEBGL based 3D Data Visualization

1. Integrating Three and D3 to construct a 3D Treemap Data Visualization of World Population Density.
2. Data collection, exploration and analysis using Pandas library on IPython Notebook.

OTHER PROJECTS

DATA VISUALIZATION

1. Task Analysis Visualization - Complex Task Visualization
2. Waveglider Data Visualization - Dymaxion Projection
3. SF MUNI Transit Visualization
4. Code of Red - Visualizing Wars and Art
5. What is the Time - 3D Seattle Public Library Activity Viz
6. Radar Visibility Diagrams

VIRTUAL/AUGMENTED REALITY

1. Kaleidoscopic Geodesic Dome - Audiovisual OPENGL piece for Allosphere
2. Kahaani- A Journalistic VR Piece
3. Magic Mirror - An AR App

CREATIVE CODING

1. Convex Hull Simulation - Three.js
2. Python Based Image Filter - Python (Scipy and Numpy)
3. Music Maker Android App (Processing)