I am a data visualization engineer/designer. I bring together user experience design, visual design, and computer science to solve data communication problems.

EXPERIENCE

United Nations | 2018

As part of Parson's Data Visualization program, I worked with the UN and built a data visualization interface that contributes to the UN's 2030 SDG.

Leibowitz Branding and Design | 2017–2019

Developed new identities and solved design problems

Created illustrations and edited photos for a Scientific Magazine of more than fifty pages.

Created new identities from scratch for wealth management clients that includes: logos, websites and stationaries

Designed visual presentations and inforgraphics using Adobe InDesign for multiple clients

Makeable | 2017

Worked as a user experience designer to design a new website for Cognizant, Future of Work.

Designed wireframes and user interface of the website

Designed Super Thumbnails: a visual library that shows a creative summary of each publication in the database

EDUCATION

MS Data Visualization | 2019

Parsons–The New School For Design

Areas of Study:

Data Visualization & Information Aesthetics

Data Structures

Quantitative Methods

Machine Learning

Animating Information

Computational Form

BFA Communications Design | 2017

Syracuse University

SKILLS

Communications Design

Data Visualization

UX and UI Design

Animation and Interaction Design

Web Design

Information Design

Branding & Identity

Product Design

Publication Design

Tools

Adobe: Ai–Id–Ae–Au–Ps–Xd

Sketch–Figma

Mapbox

Git

Markdown

Programming

JavaScript:d3–p5–Chart

HTML/CSS

Python

OpenSCAD

R

VOLUNTEER

Saudis in USA | 2017

Worked as a graphic designer for the organization.

Syracuse University | 2015

Volunteered to be a peer advisor for the new students.

BATOOL AKBAR

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NYC

Popular Baby Names – Google interview assignment   December 2019

As part of Google interview process, I was asked to build a dashboard using D3js that shows popular baby names in New York in 2015 and 2016. The tool is a dashboard that uses clusters force layout as a visual language to communicate the data. Ethnicity, gender and year are the filtering options. Size of the bubble translates the name's popularity in the selected year and ethnic group. Gender is represented in 3 colors, female, male and gender neutral names. The dashboard allows the user to save a version of the visualization for comparison.

I was given 10 hours to come up with this tool, dashboard is not fully built (WIP) but the main visualization is functional.

Project Page: https://bsakbar.github.io/home-page/baby_names/baby_names.html

Detailed description of the design process: https://docs.google.com/document/d/15f2Ag9-OGc2hQas_ NCiTcvaAbDimxUl-_UXSohGaYeY/edit?usp=sharing

Medigon – Thesis Project   Jan-May 2019

Built an interface that utilizes polygons in visualizing blood test results to patients.

- Normalized blood test results for more simplification

- Created a visual language using Chart.js and polygons to easily distinguish blood test results of healthy vs unhealthy individuals based on the angle symmetry of the polygon.

- Developed an interactive interface that allows the patient to further investigate their test results using the dashboard.

Demo: https://vimeo.com/337975236

Project Page: https://bsakbar.github.io/thesis/web/home.html

Detailed description of the design process: https://bsakbar.github.io/home-page/medigon.html

Quality Education – United Nations   Sep-Dec 2018

Designed and developed a dashboard to study the relationship between access to electricity and level of education in Africa.

- Created an isometric projection of an interactive map of Africa using Mapbox and D3.js

- Developed autocomplete textbox and HTML buttons to control the map using JavaScript

- Designed three dimensional graphics using Adobe Illustrator of all countries in Africa and exported them as SVGs components to be shown on the page upon country selection

Demo: https://github.com/bsakbar/major-studio-1/blob/master/Final%20assignment/batool_screen_record-ing_final.mov

Project Page: https://bsakbar.github.io/major-studio-1/Final%20assignment/Final_Project.html