Santhosh Soundararajan

Data Visualization Engineer & Graduate in Data Science

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EXPERIENCE

The Sphere Institute - Burlingame, CA

Data Visualization Engineer, Nov 2017 - present

Contributed to the Data Analysis and Visualization Group (DAVG) in conceptualizing and engineering visualizations as tools and UI for case investigation and exploration, performed by healthcare policymakers. Tasks are not limited to, the following:

- Interpreted research findings and quantitative analyses of health care data for government agencies.
- Created module design documents and accompanying mock-up that goes through team-wide critique.
- Implemented visualizations as reusable d3 modules that will be a part of the internal library- `acujs`.
- Integrated modular components and interfaces into the web app to meet specifications.

While contributing to the `acujs` core library, was also successful in introducing best practices and tools that enhanced overall workflow, build and test frameworks for the team.

Dev Stack: d3.js, Vue.js, Vuex, ag-Grid, PostgreSQL, Webpack, Jest, Visio

MathWorks - Boston, MA

Data Scientist Intern - Data Visualization, June 2016 - Dec. 2016

Built live dashboard for BSEAnalytics team to monitor system performance and forecast disk space scaling. This included charts with custom interactive graphics and brushable layouts to enable client-side exploratory analysis that marked a significant improvement over their existing out of the box charting library.

Other essential tasks include setting up data extraction scripts and data pipeline with Map-Reduce.

Dev Stack: d3.js, Crossfilter, Node.js, CSS - Sass, CouchDB, MySQL, Python

Wipro - Bangalore, India

Software Engineer, Dec. 2012 - July 2015

Acted as a software developer on a wide variety of projects on all ends of a `JAVA-J2EE` based stack.

SKILLS & TECHNOLOGIES

Visualization	D3.js, SVG, Canvas, TopoJSON, MapBox, Semiotic.js, ag-Grid, Crossfilter, DC.js
Web Dev	React, Redux, Vue.js/ Vuex, Angular, Webpack, Jest, HTML, CSS - SCSS/Sass
Databases	MySQL, NoSQL - MongoDB, CouchDB, Neo4j, GraphQL, Spark/pySpark
Other	Python, numpy, pandas, R

PROJECTS

Relationship Map: A geospatial visualization of network(>10k nodes) with data filtering and auto re-centering/zoom synced to element group & their associated dynamic bounding box (`D3.js, Vue.js/Vuex, agGrid`)

SF Muni Transit Map: Live map of labeled buses on color-coded routes with 10sec data refresh rate(`d3, Angular 4`) ⎘

Crossfilter Dashboard: Dynamic filterable dashboard built for exploratory study(`dc.js, Python- Flask, pandas`) ⎘

Other: A React.js based personal blog focused on sharing projects, meetup outcomes and visualization critiques.

EDUCATION

Indiana University - Bloomington, IN

Master of Science in Data Science, Aug. 2015 - May 2017

Sri Krishna College of Technology - Coimbatore, India

Bachelor of Technology in Information Technology, Aug. 2008 - July 2012