Santhosh Soundararajan
Visualization Engineer & Data Science Graduate

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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 filterable layouts to enable client-side exploratory analysis that marked a significant improvement over existing out of the box charting library - `plot.ly`. 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, Three.js, WebGL, Crossfilter, DC.js, MapBox, ggplot
Web Dev	Vue.js, Vuex, React, Redux, Angular, Webpack, Jest, CSS - SCSS/Sass, ag-Grid
Databases	MySQL, GraphQL, PostgreSQL, CouchDB, Neo4j, *parallel processing* - Spark, pySpark
Other	Python, numpy, pandas, R

PROJECTS

Relationship Map: Network projected on a map with auto re-centering and zoom synced with element properties(d3, vue)
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 blog focused on sharing personal projects, challenges and 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*