Varsha Alangar

Data Visualization Developer with 3 years of experience designing and developing visualizations-driven web applications.
Specialized in JavaScript, D3.js, Vue.js, Agile Development

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EXPERIENCE

Data & Policy Analyst III – Data Visualization   JUNE 2016 - PRESENT
The SPHERE Institute (Acumen, LLC) – Burlingame, CA

- Founding member of the Data Analysis and Visualization Group at Acumen, LLC; assisted in establishing code standards, CSS guides and documentation conventions across the team.
- Primary developer on 3 successfully delivered, client-specific, standalone applications; involved in design prototyping, implementing responsive pages, and cross-browser testing.
- Created over 6 interconnected, data-driven web pages for a large-scale, exploration platform to investigate and find leads on profiles of interest across the nation; designed and established features for the tool.
- Supervised new members through team standards in code refactoring stages; oversaw and managed JIRA sprint tasks.
- Drive brainstorming sessions, client meetings and represented team at company-wide talks.

Software Engineering Intern   MAY 2015 - AUG 2015
Amirsys, Inc (Elsevier Clinical Solutions) – Salt Lake City, UT

- Programmed a search engine (using SOLR) to look for existing book illustrations stored in a PostgreSQL database.

Graduate Teaching Assistant   AUG 2014 - MAY 2016
University of Utah – Salt Lake City, UT

- Conducted lab sessions, held office hours and evaluated over 60 students in the Foundations for CS course.

SKILLS

JavaScript, HTML

CSS, Flexbox

Vue.js, MVC framework

D3.js, SVG

JSON, TopoJSON

Webpack

Node.js, JQuery

Python, OpenGL

PostgreSQL

Git version control

JIRA project tracker

Microsoft Visio, Moqups

Tableau, Adobe Photoshop

VS Code, Sublime IDE

Confluence documentation

Agile development

Project presentation

EDUCATION

MS in Computing (Graphics and Visualization)   **CGPA**: 3.8 / 4.0   MAY 2017
The University of Utah – School of Computing, Salt Lake City, UT, USA

B.E. in Computer Science and Engineering
Anna University, Chennai, Tamil Nadu, India   **CGPA**: 8.88 / 10.0, **Rank**: 15 / 8069   APRIL 2014

PROJECTS

Force-directed Graph Application   DECEMBER 2017

- Developed a standalone, dual-page application to visualize over 100,000 connections. Included graph zooming, panning, node collapse and network expansion features to improve navigation through dense networks.

Map Based Tools   JUNE 2017

- Developed heat maps and cartograms using *D3.js* to analyze geographic distribution of information.
- Worked extensively on *TopoJSON* and geospatial data to display relationships of nodes on the map.
- Improved the performance and load speed of tools by 60% using command-line cartography technique.

Interactive Computer Graphics   MAY 2017

- Produced 3D graphics with complex *OpenGL* and GLSL shader algorithms like transformations and texture maps.
- Implemented and presented a comparative study of 4 Non-Photorealistic Rendering Approaches.

High Accuracy Question Answering System   DEC 2015

- Secured 3rd position for the highest accuracy QA system among 40 others; generating responses to queries from articles using NLTK Toolkit and Rule-based techniques for Natural Language Processing in *Python*.