VARSHA ALANGAR

Visualization developer with over 2 years of professional experience designing and implementing exploratory visualizations to uncover patterns and correlations in large datasets.

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SKILLS:

JavaScript | HTML | CSS | D3.js | JQuery | Vue.js | JSON | Node.js | MVC Framework | Git | PostgreSQL | Python | OpenGL | C++ | Tableau | Adobe Photoshop | Microsoft Visio | JIRA | Visual Studio Code | Sublime | Agile development | Confluence

WORK EXPERIENCE:

Data and Policy Analyst III – Data Visualization **Summer 2016 – Present**

Acumen LLC, Burlingame, CA

- Visualization developer with end-to-end project responsibility; successfully deployed a series of 3 well received, client specific, interactive visualization tools to explore health care fraud data.
- Optimized project development time by creating reusable, interactive *D3.js* modules.
- Improved team efficiency by setting CSS style guides, coding and documentation conventions.
- Supervised new members through team standards in code refactoring stages; oversaw and managed *JIRA* sprint tasks.

  Skills: *JavaScript, HTML, CSS, D3.js, Vue.js Framework, Git, MVC Framework, JSON, JQuery, PostgreSQL, designing interactive visualizations and dashboards, stress testing the tools for cross-browser compatibility.*

Software Engineering Intern **Summer 2015**

Elsevier (Amirsys Inc), Salt Lake City, UT

- Programmed a search engine (using SOLR) to look for existing book illustrations stored in a *PostgreSQL* database.
- Gained experience in agile development process, importance of testing, and pushing code into production.

Graduate Teaching Assistant **Fall 2014 – Spring 2015**

University of Utah, Salt Lake City, UT

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

EDUCATION:

MS in Computing (Graphics and Visualization) **CGPA: 3.8 / 4.0** **Spring 2017**

The University of Utah – School of Computing, Salt Lake City, UT, USA

B.E. in Computer Science and Engineering **CGPA: 8.88 / 10.0, Rank: 15 / 8069** **Summer 2014**

Anna University, Chennai, Tamil Nadu, India

ACADEMIC PROJECTS:

Interactive Computer Graphics **Spring 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.

Caleydo Entourage **Fall 2015**

- Created aesthetically pleasing *D3.js* visualizations for efficient multi-pathway analysis of the KEGG database.
- Extracted, represented and dynamically updated selected paths from experimental data shown as a network.

High Accuracy Question Answering System **Fall 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*.

PUBLICATION:

Alangar, V., Swaminathan, A. (2013) “Regulated Distance Algorithm in Large Networks for Graph Partitioning”, International Journal of Engineering Research and Technology, Vol. 2 (09), 2013, ISSN 2278 – 0181