



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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<https://valangar.github.io/>

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SKILLS:

JavaScript

D3.js

JQuery

Vue.js

JSON

Node.js

MVC Framework

Git

PostgreSQL

Python

OpenGL

C++

JIRA

Confluence

Tableau

Adobe Photoshop

Microsoft Visio

Visual Studio Code

Sublime

Agile development

WORK EXPERIENCE:

Data and Policy Analyst II – Data Visualization

Summer 2016 – Present

Acumen LLC, Burlingame, CA

- Lead developer with end-to-end project responsibility; including creating page mockups, collaborating with internal teams, synthesizing and managing backend data using *PostgreSQL*, building dashboard solutions using *JS* and *D3.js* in a *Vue.js* framework, stress testing the tools for cross-browser compatibility before deployment.
- 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.

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