

VARSHA ALANGAR

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Visualization developer with 3 years of experience turning incoherent data into clear, compelling and exploratory solutions with progressive ideas, one pixel at a time.

EDUCATION

MS in Computing (Graphics and Visualization)	CGPA: 3.8 / 4.0	Spring 2017
<i>The University of Utah – School of Computing, Salt Lake City, UT, USA</i>		
B.E. in Computer Science and Engineering	CGPA: 8.88 / 10.0, Rank: 15 / 8069	Summer 2014
<i>Anna University, Chennai, Tamil Nadu, India</i>		

CORE SKILLS

- **Languages:** JavaScript (Vue.js Framework, D3.js, JQuery, Node.js), HTML5, CSS, Python, OpenGL, C++
- **Version Control:** GIT
- **Task Tracking:** JIRA
- **Other Tools:** Tableau, Visual Studio Code, Sublime, Microsoft Visio, Moqups, Photoshop
- **Database Management:** PostgreSQL
- **Documentation:** Confluence

WORK EXPERIENCE

Data Analyst and Visualization Developer II 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, standalone visualization tools to explore aspects of health care fraud data.
- Optimized project development time by creating reusable, interactive *D3.js* modules focusing on geographic visualizations, command-line cartography, force directed graphs and tables.
- Improved team efficiency by setting CSS style guides, coding and documentation conventions after researching and testing JS libraries and frameworks.
- 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.

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 and represented selected paths from experimental data, as charts and updating paths dynamically.

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*.

Social Media Mining Spring 2015

- Worked on the IMDb dataset, extracted the relationship between movie ratings and its success, and visualized the results using *Tableau*.

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