

Shweta Purushe

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Objective: Seeking a full-time position in an esteemed organization where I can hone my skills and acquire new ones

Experience:

Software Developer at Weave Visual Analytics (February 2016 – August 2016)

- Managed, designed and implemented framework to customize sessioned dashboard using Javascript (ES6), ReactJS, HTML5, CSS3, Webpack, Babel, Npm
- Martin's Point Health Care (MPHC): Implemented card and dashboard views for internal health risk score model system using Javascript (ES6), Typescript, ReactJS, HTML5, CSS3.
- ELM, Kingdom of Saudi Arabia: Designed and implemented data API for navigation and querying geographical and national indicator hierarchies to drill down between multiple data views using Javascript and ReactJS
- Developed Editor UI to facilitate selection and asynchronous retrieval of data attributes using ReactJS, HTML5/CSS3, Typescript, JAVA - web service
- Ported Data-crumb UI from AngularJS to ReactJS to browse data hierarchy model.

Full Stack developer / Doctoral Thesis at IVPR (August 2012 - December 2015)

- **Weave Analyst:** Designed and implemented an open source visual analytic platform enhancing analytic power of visualizations from computations run in external statistical engines such as R, Python and Stata using Javascript, AngularJS, Java, R, Python, Stata.
- Implemented a Round-trip Pipeline architecture between analytic and visualization engine using Javascript (IIFE pattern).
- Designed and Implemented Data-Crumb UI to navigate data hierarchies across sibling and children using AngularJS and Javascript
- Created an 'R project' package to run Weave as a visualization widget from the R console using the 'htmlwidgets' framework in Javascript and R.

Software Developer - Analyst / Research Assistant at IVPR (December 2009 – December 2015)

- Design and implementation of class discrimination algorithms in RadViz visualizations in Weave to improve layout of dimensional anchors to identify the correlations in data, using ActionScript, JAVA and R.
- R-Script editor: Implemented interaction and computation API interface for input arguments of R computation and visualizing computation results with original data using R, JAVA, rJava, Actionscript3 and Flex 4.5
- Implementation of an interactive Ramachandran Plot and Protein Data Bank web-service for plotting secondary structures of proteins using Actionscript3 and JAVA.

Languages: TypeScript, Javascript, HTML5, CSS3, JAVA, R, Python, Perl

Frameworks: ReactJS, AngularJS, Flex3/4.5

Techniques: AJAX, Object Oriented Design, Agile, Software Development Life Cycle

Database: MySQL, SQL

Tools(IDEs): Eclipse, Webstorm, Flash Builder 4.7

Tools: WEKA, Tableau, R-Studio

Education: **Ph.D. Biomedical Engineering & Biotechnology**, UMass, Lowell, MA (2009 – 2015)
M.Sc. Microbiology, University of Pune, Pune, India (2006 – 2008) GPA: 3.8 /4.0
B.Sc. Microbiology, University of Pune, Pune, India (2003-2006) GPA: 3.9 /4.0

Github: <https://github.com/shwetapurushe>