

# Bigyan

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## EDUCATION

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**Brown University**, *M.S. in Chemistry (Analytical)*

**Providence, RI** | Aug 2013-Oct 2015

**Quinnipiac University**, *B.S. in Biochemistry, Mathematics*

**Hamden, CT** | Aug 2009-May 2013

## SUMMARY

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- Over 6 years of programming experience with good understanding of SDLC and Agile processes.
- Has strong understanding of HTML5, CSS3, JavaScript, and Java.
- Possesses strong knowledge of JavaScript libraries: jQuery, AngularJS, NodeJS, and ReactJS.
- Has strong knowledge of object oriented, reactive, and functional programming principles.
- Understands fundamentals of data structures, algorithms, operating systems, and networking.
- Has good understanding of relational (SQL) and non-relational databases (MongoDB).
- Experienced in integrating with third party APIs.
- Familiar with PassportJS, OAuth, and Socket.io.
- Familiar with Cloud services such as Amazon EC2 as a IaaS and Heroku as Paas.
- Has good understanding of continuous integration(Jenkins) and test driven development(TDD) approach of software development.
- Familiar with virtualization and container based technologies (Hypervisors, Docker).
- Experienced in regressional analysis, data mining, and predictive modeling.
- Keeps up to date with current and emerging technologies through relevant meetups and blogs.
- Solves complex problems with intelligence, critical thinking, and creativity.
- Entrepreneurial, curious, and positive.
- Takes ownership of projects and sees them through to the completion.

## TECHNICAL SKILLS

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<b>Languages:</b>	(Advanced): HTML5, CSS3, JavaScript, Java, SQL (Basic): R, Python, TypeScript, C
<b>Frameworks/Libraries:</b>	(Advanced): AngularJS, ReactJS, jQuery, Bootstrap, NodeJS (Basic): Backbone, Underscore, Passport
<b>IDE/Text Editors:</b>	Eclipse, Atom, Sublime, Visual Studio
<b>Build Tools:</b>	Webpack, Gulp, Maven, Jenkins
<b>J2EE/Java:</b>	JSP, Servlets, JDBC, Hibernate, Spring MVC
<b>Database:</b>	(Intermediate): MySQL, Postgres, MongoDB
<b>Operating System:</b>	Windows, Mac, Ubuntu
<b>Server:</b>	Tomcat and ExpressJS
<b>Design Patterns and Architectures:</b>	Observer, Singleton, Factory, MVC, MVVM, Flux, Redux
<b>Other Interests:</b>	Big Data, Hadoop EcoSystem(MapReduce, Spark, Storm), React Native, Cordova, Ionic

## WORK EXPERIENCE

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**Marlabs Inc.**, Java/ JavaScript *Full Stack Programmer*

**Piscataway, NJ** | Jan 2016-Present

- Involved in study and analysis of User Requirement Specification with Business Analysts to resolve ambiguity in Business Requirements
- Participated in collaborative agile(scrum) meetings.
- Designed and developed robust, responsive, and interactive web pages using Javascript, HTML5, and CSS3.
- Implemented MVVM design pattern to create Single Page Applications (SPA) using Angular JS 1.5.

- Performed User Interface (UI) validations using AngularJS form validations.
- Developed ReactJS Components using ES6/JSX/Babel/Webpack/Gulp/Browserify.
- Developed and incorporated React view components within the Angular directive.
- Used Bootstrap to create responsive web pages.
- Made AJAX calls to RESTful APIs and consumed data exposed in JSON format.
- Fixed cross-browser compatibility issues using Modernizr.
- Wrote test cases and performed unit tests using Jasmine and end-to-end tests using Protractor.
- Developed visually enriched piecharts and bargraphs using D3.JS and SVG.
- Applied animations to the bargraphs.
- Developed RESTful web services using MongoDB, ExpressJS, AngularJS, and NodeJS.
- Created CRUD application by using Spring MVC on back-end and AngularJS encapsulated within JSP on front-end.
- Used Hibernate as the ORM tool to connect Java application objects to the SQL database.

Tools Used: HTML5, CSS3, JavaScript, Modernizr, jQuery, Bootstrap, AngularJS1.5, ReactJS, Babel, JSX, Webpack, Gulp, Browserify, NPM, Bower, ES6, D3.JS, RESTful WebServices, AJAX, JSON, XML, NodeJS, ExpressJS, MongoDB, MySQL, Servlets, JSPs, Hibernate, SpringMVC, GIT, Jasmine, Protractor.

**Brown University, Research Assistant**

**Providence, RI | Jun 2014-Aug 2015**

- Performed time series analysis of collected Ozone (O<sub>3</sub>) samples.
- Developed a model that determines the isotopic values of <sup>15</sup>N.
- Created visually enriched statistical graphs and disseminated the result to the public via responsive and interactive web pages.

Tools Used: HTML5, CSS3, Bootstrap, JavaScript, jQuery, jQuery UI, Python Pandas, Excel

**Brown University, Teaching Assistant**

**Providence, RI | Sep 2013-Dec 2014**

- Led lab teaching sessions and tutorials for Chemistry Undergraduate students.

Tools Used: HTML5, CSS3, JavaScript, Excel, Powerpoint

**Quinnipiac University, Research Assistant**

**Hamden, CT | Sep 2009-May 2013**

- Analyzed the water quality of Quinnipiac river and disseminated the results to the public in interactive and responsive html pages.
- Created linear regression plots to test the influence of temperature on phthalates emissions.
- Analyzed the survey data provided by La Leche International to find correlations between variables that potentially affect breastfeeding attitude of mothers.
- Conducted linear regression analyses using R and Excel.

Tools Used: HTML5, CSS3, JavaScript, Excel, Powerpoint