# Brindha Krishnamoorthy

frontenddeveloper60@gmail.com

MS in Computer Science and Engineering, Santa Clara University

# PROFESSIONAL SUMMARY

* **Web UI/UX Developer** with extensive knowledge in Web 2.0 technologies, 10 years of experience in Web User Interface and Front-End design & development using **HTML5, CSS3, JavaScript, jQuery, AJAX, Angular, Bootstrap JS and Node.js.**
* Deep understanding on **MVC** framework. Experience in Implementing **AWS solutions** using **EC2, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups**. Experience on **browser testing, cross-browser compatibility**, and **cross-platform compatibility** using **Modernizer**.
* Experience in all phases of Software Development Lifecycle such as Design, Development and Testing. Experience with software development methodologies such as **Waterfall and Agile Scrum.** Strong understanding of different development methodologies such as **Agile, Scrum, TDD** and **BDD.** Experience in **Designing, Architecting** and **implementing scalable cloud-based web applications using AWS** and **GCP.**
* Produced visually appealing designs focused on **usability, utility, UX, cross-browser compatibility** and **SEO / web standards**. Experience on working with **CSS: Background, Layouts, positioning, text, border, margin, padding, table and behaviors** in **CSS**.
* Extensive experience in various **UI widgets** using **JavaScript libraries** like **Angular** and developing Rich Internet Applications. Experience with Frontend testing like **Mocha, jasmine and Karma**.
* Intranet applications using **HTML/HTML5, XML, DHTML CSS/CSS3, SASS, LESS, JavaScript, React Js, Angular Js, Redux, ES6, Web pack, Flex, jQuery, JSON, NodeJS, Ajax, JQUERY Bootstrap.**
* Experience in all phases of **SDLC**like Requirement Analysis, Implementation and Maintenance, and extensive experience with **Agile**and **SCRUM.**
* Working knowledge of Web protocols and standards **(HTTP HTML5/XHTML/XHTML-MP, CSS3, Web Forms, XML, XML parsers)**, Good experience on customizing **CSS** frameworks like Bootstrap and Foundation using **CSS** pre-processors **LESS**or **SASS**and **Compass.**
* Expertise in implementing easy to use **Bootstrap plugins**for building carousel, accordion, modal windows etc. Experience in using **Angular JS**components, Forms, Events, Keys, Router, plus Redux, Animations and Flux concept.
* Expertise in analyzing the **Document Object Model**(DOM) Layout, DOM Functions, and Java Script functions, Cascading Styles across cross-browser using Fire Bug, Developer Tool Bar. Expertise in **Angular JS**framework to develop the **SPA**. Created User Interfaces for Mobile/Tablet/Desktop using **HTML5**& **CSS3**.
* Experience working with browsers compatibility issues with browsers like **IE, Firefox, Safari, Opera, Chrome.** Expertise in debugging and troubleshooting existing code using **Firebug** and **Developer Tools**.
* Good Experience in **Angular JS**for creating interactive UI's using One-way data flow, Virtual DOM, JSX, React Native concepts. Expertise in using **bug tracking tools** like **JIRA**. Extensive experience on modern front-end template frameworks and libraries for JavaScript including j Query, AngularJS etc. Set up a GCP Firewall rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Expertise in implementing web applications using MEAN and MERN Stack: MongoDB, Express, Angular 2/4 and Node.js. Strong understanding of using HTML5, CSS3, JavaScript (ES5/6) for user interface and web application development.
* Proficient in using third party **REST API** and building **RESTFUL** web services. Strong experience in Client Side designing and validations using **HTML, DHTML and JavaScript.** Experienced in using Front End editors like **Atom, Visual Studio Code and Brackets.** Experience with **GIT** for code management. Hands on experience with version control tools, such as **GIT** and **SVN**.
* Excellent interpersonal abilities, communication skills, time management and Team skills with an intention to work hard to attain project deadlines under stressful environments**.** Extensive knowledge in developing single - page applications **(SPAs).** Experience in **Jenkins Maven.** Knowledge of utilizing cloud technologies including **Amazon Web Services (AWS)**.
* Strong experience in writing and updating the technical documents on daily basis with the changes made to the existing environment on daily basis. Familiarity with relational databases such as Oracle and **MySQL.** Experience in creating **style guides**, best practices and setting **UI standards** for enterprise/consumer applications.

# TECHNICAL SKILLS

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| **Web Development** | **HTML5, CSS3, JavaScript, jQuery, DOM, JSON and AJAX.** |
| **JS Frameworks** | **Bootstrap JS, Node.js, Angular, Highcharts** |
| **IDE Tools** | **Brackets, Eclipse, VS Code** |
| **Code Management** | **GIT** |
| **Operating System** | **Windows, Linux, AWS, GCP and OSX** |
| **Databases** | **Mongo DB, MySQL, Oracle** |
| **Software Approaches:** | **OOP, Data Structures, Design Patterns** |
| **Web Services** | **REST, SOAP** |

**WORK EXPERIENCE**

# Element Energy, Menlo Park, CA Aug 2022-Till date

**Lead Frontend / UI Developer**

# Responsibilities:

* Design, develop and test HTML5, CSS3, Bootstrap, JavaScript, jQuery and Angular Js that meets accessibility and web browser standards for website. Involved AWS Elastic Beanstalk for deploying and scaling web applications and services developed with Java and Node.js and Docker on familiar servers such as Apache.
* Built reporting and data visualization using Angular 14, NodeJS, Angular Material and Highcharts. Implemented auth/authz using Google Firebase Auth SDK. Extensive experience in implementing model-view-controller (MVC) architecture.
* Designed CSS templates for use in all pages on the website working with CSS Background, positioning, text, border, margin, padding, and table. Installed the application on AWS EC2 instances and configured the storage on S3 buckets.
* Implemented AngularJs code to handle cross browser compatibility issues in Mozella, IE 7, 8, 9, Safari and FF. Developed web applications using latest JavaScript ES6 features and frameworks such as React and Redux.
* Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Worked in a team, involved in developing the UI, layout and front-end programming HTML4 from wireframes. Modified and updated UI pages rapidly after received new requirements. Used jQuery-AJAX plug-in to GET the data in JSON format and displayed on HTML page.
* Re-designing/developing the main website to improve user experience and add new functionality using CSS2 layouts. Experience in cross browser compatibility check and thoroughly performed testing. Used Babel to trans pile our ES6 and JSX into ES5.
* Extensively used JavaScript and jQuery programming to give AJAX functionality for the website. Designed the front-end applications, user interactive (UI) web pages using web technologies like HTML5, CSS3, JavaScript and Ajax.
* Developed Rest API services using NodeJS, Express framework and Google Cloud Big Query node client. Deployed and host the application on Amazon web service (AWS). Collaborated with system engineers to ensure UI designs are implemented and tested correctly.
* Developed PoC for diﬀerent options: Reporting with Grafana iFrames and Highcharts. Responsible for Continuous Integration and Continuous Deployment.

**Technologies Used**: Angular 14, Node.js, HTML5, CSS3, JavaScript, Angular Material, Highcharts JS, Express, JSON, Google Big Query, GCP, Firebase and GIT.

# Cisco Systems, Remote Nov 2020-July 2022

**Full Stack Developer**

# Responsibilities:

* + Developed reporting for Partner and Commerce Digital experience in Cisco using Angular 7, NodeJS, HTML, JavaScript, Bootstrap and CSS3, Developed Pie, Column, Bar, Line, Gauge and Stacked charts using Highcharts framework.
  + Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager. Working with back-end web technologies such as Apache, Nginx, MySQL, Mongo DB, Memcache.
  + Enhanced digital renewals notification image generation code and redesigned the code to automate the image generation process from multi-step process into just 2 steps. Coded Rest API for Product service using spring boot. Created user-friendly GUI interface and Web pages using HTML, Node JS, jQuery and Java script.
  + Designed dynamic and browser compatible pages using HTML4, DHTML, CSS2 and JavaScript. Designed and developed Regional Review Portal for Digital Experience team to manage Partner and Disti review contacts.
  + Used Agile methodology and participated in SCRUM meetings. Interfaced with the My SQL back-end database by integrating Spring with Hibernate. Involved in Construction of UI using jQuery, Node JS and JavaScript.
  + Configured Spring boot restful web services application and enabled actuator to monitor application health status. Developed UNIT test cases using JUNIT and Mockito and configure through Maven surefire plugins to be part of continuous integration.
  + Integrated NoSQL database like HBase with Apache Spark to move bulk amount of data into HBase. Have worked on AZURE CLOUD to integrate the server side and client-side code. Written LINUX shell scripts to identify user login information.
  + Involved in Design, Development and Support phases of Software Development Life Cycle (SDLC). Involved in discussions with Business Analysts and designed the TDD (Technical Design Documents).
  + Developed code for both server side and client-side implementations using EJB. Involved in Configuration of data source and deployment of application in development, Test and Production. GIT for version Controlling.
  + Using AJAX to request JSON data through third party REST APIs to acquire products data from server and display it in sorted order. Hands on experience in using ecosystem- HDFS cluster, Hive, Job Tracker.
  + Project to leverage unlimited power of Hadoop to deliver insights to business on consumer lending. Designed the UML diagrams based on the OOAD principles. Implemented Spring boot microservices to process the messages into the Kafka cluster setup. Implement user authorities' management with Spring Security. Involved in bug fixing, major releases and customization for various client.
  + Used JIRA tool for Issue/bug tracking, monitoring of work assignment in the system. Used JUnit test cases to test the application and performed random checks to analysis the portability, reliability and flexibility of the project.
  + Used Spring Security for Authentication and Authorization of the application. Development processes the Scrum, Iterative Agile methodologies for web Application. Involved in configuration setting for Development, Test, and Production Environment.
  + Using AJAX to request JSON data through third party REST APIs to acquire products data from server and display it in sorted order. Developed Rest API services using NodeJS and Express framework. Responsible for Continuous Integration and Continuous Deployment.

**Technologies Used**: Angular 12, Node.js, HTML5, CSS3, JavaScript, Highcharts JS, Bootstrap, Express, JSON, MySQL and GIT.

# Cisco Systems, San Jose, CA Oct 2017-Oct 2020

**UI Developer/Engineer**

# Responsibilities:

* + Using Angular, NodeJS, HTML5, JavaScript, jQuery, Bootstrap and CSS3, for the Digital Partner Advisor (DPA), building a high efficiency Dynamic Single and multiple Pages Web Application. Upgraded DPA with enhanced library of Cisco UI.
  + Used JavaScript to create views to hook up models to the DOM and synchronize data with server as a Single Page Application (SPA). Designed Frontend within object-oriented JavaScript Framework using ReactJS.
  + Involved in solving cross browser compatibility issues across various browsers and platforms such as Internet Explorer, Mozilla Firefox, Google Chrome and Opera using Modernizer.
  + Hands on experience of creating REST web services by using Node.js and Express framework. Experience of using SASS, LESS and Bootstrap to enhance the user experience. Produced page contents using Bootstrap responsive layout design to fit for different device.
  + Worked on Express framework in Node.js to develop the logic code to get the data from the MongoDB database and to bind the response data to the HTML5 using Angular 2. Designed the front-end applications, user interactive (UI) web pages using web technologies like HTML4. Involved in consuming REST web service to get needed data.
  + Created dynamic/re-usable Angular components for tables, dropdown, search text box, generic-chart, and tiles. Building components including Table Grid for React UI and architecture. Developed Rest API services using NodeJS and Express framework.
  + Carried out sprint work under an Agile/Scrum methodology using test driven development (Junit for back-end, Jasmine on the frond-end). Interfaced with the Marketing and IT departments &developing requirements to implement.
  + Responsible for Continuous Integration and Continuous Deployment. To contribute and promote good software engineering practices across the team

**Technologies Used**: Angular 6/7, HTML5, XHTML, CSS3, JavaScript, jQuery, Node.js, AJAX, Bootstrap, Node.js, JSON and GIT.

# Client: JCPenney, Texas Oct 2015-Sep 2017

**Web Front End Developer**

# Responsibilities:

* + Coordinated with Business Analyst and Design teams to gather User Interface requirements, converting wireframes into web pages using HTML5 and CSS3, Implemented Responsive Web Design principles. Leveraged Bootstrap JS to design web pages.
  + Used Angular Fusion Chart in the reporting module to enhance the visualization effects. Developed Single Page Application (SPA) with two-way data binding using Angular 2 and developed nested views with the help of Angular 2 Router.
  + Involved Webpack as module bundler to preprocess and minify different files such as TypeScript and SASS files. Developed a reusable Angular 2 Pipes to filter vendors and display list in order. Proficient in designing and developing Single Page Applications using React, React-Router and React-Redux from scratch.
  + Leveraged jQuery frameworks such as Moment.js to format date/time and Data Tables jQuery plugin to handle/ transform HTML tables. Implemented responsive web UI and made better user experience using SASS and Bootstrap.
  + Enhanced the system to improve user experience and developed functions to acquire data from REST Web Service using Angular 2 and HTTP Observable. Invoked Angular 2 HTTP and processed JSON data for rendering on UI pages.
  + Used React Js virtual DOM instead of regular DOM for improved efficiency and performance. Used the feature of JavaScript of running the server and rendering the virtual DOM, returning to the browser as a regular page.
  + Worked with npm commands, used package. Json for managing dependencies & dev-dependencies of Node.js application. Involved JWT token and Guards to prevent unauthenticated users from accessing restricted routes and to realize user authentication.

**Technologies Used**: HTML5, CSS3, JavaScript, jQuery, Node.js, Bootstrap, JSON and GIT.

# Client: U.S. Cellular, Chicago, IL May 2012 – Sep 2015

**Web Front End Developer**

# Responsibilities:

* + Worked with the team of architects and back-end developers to gather requirements and enhance the application functionality and add new features. Used Angular Fusion Chart in the reporting module to enhance the visualization effects. Used GIT as a Version Control system and for code management
  + Designing page layout using HTML5, CSS3 and Bootstrap along with jQuery and adding dynamic functionality to each module. Expertise in implementing web applications using MEAN and MERN Stack: MongoDB, Express, Angular 2/4, React and Node.js.
  + Designed Frontend within object-oriented JavaScript Framework like bootstrap, Node.js, and AngularJS. Generated interactive data visualization for report via D3.js. Worked on Express framework in Node.js to develop the logic code to get the data from the MongoDB database and to bind the response data to the HTML5 using Angular 2.
  + Extensive usage of Bootstrap and less CSS for Responsive Design. Implemented template-driven form validation using Angular 2. Focused on Cross-browser feature of pages. Implemented tests on Chrome, Firefox, IE with Chrome Developer Tools and Firebug. Fixed bugs and optimized JavaScript codes.
  + Used Node.js as a proxy to interact with Rest services and also interacting with Database. Strong understanding of using HTML5, CSS3, JavaScript (ES5/6) for user interface and web application development. Worked in a collaborative and agile environment.
  + Designed dynamic client-side JavaScript, codes to build web forms and simulate process for web application, page navigation and form validation. Used AJAX to communicate with server side from client for data transfer using JSON objects.
  + Followed agile methodology for the software development. Wrote test cases for automation testing using Jasmine in TDD approach. Extensive experience on modern front-end template frameworks and libraries for JavaScript including j Query, AngularJS etc.
  + Ensured cross browser compatibility, helped in solving client/server integration issues based on object-oriented Java programming. Implemented responsive web UI and made better user experience using SASS and Bootstrap.

**Technologies Used**: HTML5, XHTML, CSS3, JavaScript, jQuery, AJAX, AngularJS, Bootstrap, Node.js, JSON and GIT

**EDUCATION**

* BE in Electronics & Communication Engineering, Madras University, India, 2003
* MS in Computer Science & Engineering, Santa Clara University, CA, USA, 2015