

**JAY JARIWALA**

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**SUMMARY:**

- **Javascript full stack developer** skilled at developing highly scalable web applications in various domains like **Banking, Transportation, Military, and Education**
- Experienced in **MERN** and **MEAN** stack development using **React v16.8, Angular 8/7/6, AngularJS, Express v4.0, Node.js v12.x** and **MongoDB v4.2**
- Hands-on experience in ReactJS for Creating Interactive UI's using **one-way data flow, Event handlers, Virtual DOM, JSX, React context and hooks**
- Solid knowledge of Stateful Application Interface architecture and patterns (**Redux, Flux, React Router, Nested State, Actions, Reducers**)
- Experience with persistent data structures libraries like **Immutable.js** and **Mori**
- Experience in cross-platform **Mobile Development** using **React Native** and **TypeScript**
- Hands-on experience with modern React frameworks like **Next.js** and **Gatsby.js**
- Expertise in **Angular 2+** modules like **Components, Services, Routes, Injectables, Subject, Event Emitters, Observables, Pipes, Route guards, Reactive Forms** and working knowledge on **Angular Fire2**
- Strong experience in **AngularJS Controllers, Services, Custom Directives** and **Template Driven Forms**
- Solid experience with **SQL** and **noSQL** databases such as **MySQL 5, Oracle 11g** and **Mongodb 4.2**
- Strong experience in creating web services using **REST API** and testing using **Postman**
- Hands-on experience developing secure application using the knowledge of **OWASP**, encryption, **JWT** and **OAuth2**
- Experience in working with NPM modules like **http, Express, mongoose, Socket.IO, deepstream.io, Nodemailer**, and **Passport.js** etc.
- Good understanding of **HTML5 Semantic markup** and **WCAG 2.0** web accessibility guidelines
- Strong experience working with **CSS pre-processors** like **Sass, Less** and **Stylus**.
- Deep expertise with CSS Frameworks like **Bootstrap 4, Foundation 6, Google Material Design, Bulma** and **Materialize 1.0**
- Experience in dynamic data visualization libraries like **D3.js, Highcharts, Google Charts** and **Chart.js**
- Strong experience with **Vanilla JavaScript** extensively used **ES6 Features** such as **Promises, Modules, Arrow Functions, Spread** and **Rest Operators** etc.
- Familiarity with common front-end development tools such as **Babel, webpack 4, Grunt 1.1, gulp 4.0, Postman, Prettier, React & Redux dev tools, Augury** and **ESLint**.
- Good Understanding of **Object-oriented programming, Functional Programming** and **Agile methodologies**
- Hands-on experience with **AWS Cloud Services** like **EC2, Simple Storage Service (S3), IAM, RDS, Lambda functions** and **Elastic Beanstalk** for application deployments.
- Test driven development through **Unit testing** with **Jasmine, Karma, Enzyme, Jest** and **JUnit**
- **Strong debugging** and **problem solving skills** with excellent understanding of system development methodologies, techniques and tools

- Comfortable using **Jira** for project management and **Jenkins** for continuous integration and deployment. Proficient in version controls such as **Git** and **SVN**

## TECHNICAL SKILLS:

<b>Programming Languages</b> JavaScript (ES6), Java 8, Unix Shell Script, C	<b>Databases</b> MongoDB 4.x , MySQL 5.x, Oracle 11g
<b>UI Web Technologies</b> HTML5, CSS3, JavaScript, Ajax, JSON, Sass, Less, Stylus, Bootstrap 3.x/4.x, Material Design	<b>JavaScript Libraries and Frameworks</b> React v16.x, Angular 8/7/6 , AngularJS, jQuery 3.x, Next.js, Gatsby.js ,Node.js v12.x, D3.js
<b>Web Application Server</b> Apache 7, Nginx 1.x	<b>Server-side Framework</b> Express 4.0
<b>Unit, Integration &amp; End-to-End Testing tools</b> Jasmine 3.x, Karma v5, Jest v26, QUnit v2.x	<b>Version Control</b> Git, SVN
<b>Text Editor &amp; IDE</b> Visual Studio Code, Eclipse	<b>Operating System</b> Mac OS, Linux, Windows 10

## PROFESSIONAL EXPERIENCE:

**Marlabs Inc**  
Piscataway, NJ

March 2020 to Current

**Client: People's United Bank**

**MERN Stack developer**

**Project: Credit Card Dashboard**

People's United Bank is a financial institution which offers personal, retail and commercial banking services to individual and businesses.

**Project Description:** Credit Card Dashboard is customer facing web application that contains modules like Credit Card Application, Card Management, Account Management, Monthly Transactions & Statements, Rewards Products Shopping and Help Center etc. The scope of the project is to rewrite the application dashboard using ReactJS with newer layout design with additional features.

### Responsibility:

- Extensively worked with **ReactJS** Framework to design and develop Single Page Application (SPA)
- Utilized ReactJS **Components, Forms, Events, Routers, React Hooks** and **Animation** concepts in application development
- Developed reusable components and implemented routing using **React Router module**.
- Created services to perform **GET, PUT, POST, DELETE** operations on the API endpoints. Utilized **Axios** library to send **Ajax request**
- Used **React Bootstrap Framework** for responsive web design and component styling

- Managed Application level state using **Redux**. Integrated **React Redux package** to bootstrap the redux architecture, used **Redux Thunk** middleware for async operations with Redux Store.
- Extensively used utility libraries like **Joi, Lodash, Immutable.js and moment.js**
- Closely worked with UX designers team to get feedback on component design and application responsiveness.
- Utilized **Node.js** runtime environment for frontend development tools like **Webpack, Babel, ESLint and Sass**.
- Used **Modernizr** JavaScript library to solve Cross-browser compatibility issues with different browser platforms.
- Created dynamic data visualization chart using **D3.js** for customer's spending categories.
- Worked in a Test Driven Development environment, performed unit testing through **Jest** and **Enzyme**.
- Utilized **Git** as a version control and **Jira** for project management & bug tracking
- Used **Jenkins** for continuous integration and deployment

**Environment:** HTML5, CSS3, Sass, ReactJS v16.12, Redux v7.2, Axios, Modernizr v3.5, JSON, REST API, Node.js v12.16, JSON web token, Bootstrap 4, D3.js v5, Jest v26.x, Agile, Scrum, Jira, Jenkins, AWS EC2, Docker v19.2, Unix.

## **SDI Global Services**

Princeton, NJ

**Client:** Edge Limousine

Jan 2019 to Feb 2020

**MEAN Stack developer**

**Project:** Transportation Management System

Edge Limousine provides luxury car transportation services to their direct customers, corporate businesses and affiliate travel companies.

**Project Description:** The scope of the project is to develop a software solution that provides an efficient way to handle the existing customers, affiliate companies, ride dispatch, ride tracking and invoice generation. The software interface allows customers to request and book the specific luxury car from the company's car inventory. The admin interface manages the Customer Car Request, Customer Details, Booking details and Driver & Affiliate's Assignments.

## **Responsibility:**

- Gained novice level experience developing **MEAN Stack** application.
- Designed and developed **REST APIs Microservices** on server-side using **Node.js** and **Express.js**.
- Designed database backend schema using **MongoDB and mongoose**.
- Implemented **data filtration, sorting, pagination** and **searching** endpoints using **mongoose** database query.
- Implemented Indexing on the **Mongodb** schema to fetch faster search result from database collection.
- Efficiently implemented **Error handling mechanism** using **Express middleware**.

- Consumed **Google Map API** to fetch customer pickup and drop off location.
- Utilized **Passport.js** middleware for **JWT Authentication** and **NodeMailer** for automated email.
- Followed best practices of **Application Security** with the knowledge of **OWASP** Top 10 security vulnerability
- Extensively used **Postman tool** to test the API end endpoints.
- Developed application component using **Angular 7** Framework, migrated application to **Angular 8**.
- Managed the application level state using **NgRX Store, Reducers, Actions, Dispatcher** and **Middleware**
- Utilized **Angular CLI** to generate basic structure of the application which allows to jumpstart the development
- Took initiative working with **React Native** for Driver and Passenger mobile applications.
- Heavily utilized NPM external packages like **Express, Axios, Passport , Nodemailer, body-parser, crypto** etc.
- Utilized **Amazon S3 service** for storing files and images.
- Developed UI layout using **HTML5, Material-UI CSS framework, CSS3 Media query, CSS grid layout** and **Flexbox**.
- Created **Data visualization** chart for company revenue data and ride dispatch using **Angular-Fusion Charts** library.
- Performed unit testing using **Jasmine and Karma**
- Used **Jira** for project management and git for version control
- Continuous integration & deployment through **Jenkins**
- Hosted application in production using **AWS Elastic Beanstalk**.

**Environment:** HTML5, CSS3, Sass, Material-UI, Angular v7/8, React Native, Ajax, Google Map API, JSON, REST API, Node.js v11.2, Express.js v4.14, MongoDB v3.6, mongoose, Passport.js, NodeMailer, JWT, OWASP, CSS Grid, Agile, Scrum, Jasmin v3.4, Karma v5.0, AWS EC2, AWS S3 storage, Docker v18.4, Jira, Jenkins.

## **SDI Global Services**

**United State Special Operation Command (USSOC)**

July 2017 to Dec 2018

Southern Pines, NC

**MERN Stack developer**

**Project:** STARR - (Simulation and Training Application for RCU & RDU)

USSOC is the unified combatant command charged with providing defense services in United States and protecting the nation against terrorism and enemy activity.

**Project Description:** The scope of the STARR application project is to enable hands-on practical training between military students and their instructors using realtime device simulation built on the application platform. The device simulation interface replicates the real Radio Control Unit device used with Radio frequency Jammer. The Application module contains features such as Instructor Dashboard, Realtime Screen sharing, Device Simulation Interfaces, Device Settings, Warning and Alerts, Student Quiz Module etc.

**Responsibility:**

- Developed web application using **MERN stack**
- Created REST API **Microservices** using **Node.js** and **Express.js**
- Designed database backend schema using **MongoDB** and **Mongoose**
- Utilized **Deepstram.io** service to achieve **publish-subscribe** and **request-response** socket connection between different interfaces in real time.
- Designed and developed device simulation application interface using **HTML5**, **CSS3**, **JavaScript**, **ReactJS**, and **Ajax**
- Implemented Application level state management using **Flux Architecture Pattern**.
- Utilized **React Bootstrap** component framework for responsive web design and component styling
- Designed responsive Interface layout using **CSS3 media queries**. Used **Less** as a css pre-processor.
- Implemented realtime user interaction between multiple device interfaces by combining the power of **React one-way data binding** and **realtime database server**.
- Implemented screen sharing feature using **WebRTC** peer to peer data connection.
- Extensively used **Axios** library to consume REST API services
- Utilized **HighChart library** to display student quiz result data and progress.
- Directly worked with client to understand the feature requirement and necessary changes
- Utilized **Electron.js** framework for production build on Windows Tablet devices.
- Unit testing using **Jest** and **Enzyme**.

**Environment:** HTML5, CSS3, ReactJS v15.5, Ajax, JSON, REST API, Node.js v10.2, DeepStream , Electron 8.8, MongoDB v3.8, Realtime programming, Agile, Scrum.

**TODAY'S BUSINESS**

Aug 2016 to Dec 2016

Pine Brook, NJ

**Web Developer Intern**

Today's Business is a digital Marketing agency located in New Jersey that provides custom web design, development and maintenance services to their clients.

**Responsibility:**

- Designed the Websites frontend, UI web pages using web technologies like **JavaScript**, **HTML5**, **CSS3**.
- Converted Web mockup design (**PSD**) into full functional, **responsive** and **cross-browser compatible** website.
- Used **Sass** – css preprocessor to write syntactically awesome stylesheets.
- Participated in requirement analysis to gather information for laying out **UI design**.
- Utilized **Gulp** and **Grunt Task runners** into daily development workflow.
- Followed **WCAG 2.0** guidelines to support web accessibility.
- Used **jQuery** library to add dynamism to the web pages.
- Made **Ajax API calls** to fetch information from the **API endpoints**.
- Implemented Form **validations** using JavaScript and **DOM API**.

- Utilized **QUnit** for **jQuery unit testing**.

**Environment:** HTML5, CSS3, JavaScript, AJAX, JSON, XML, Sass, QUnit, DOM, Grunt, Gulp, Agile, Scrum.

**Fairleigh Dickinson University**

Sept 2015 - July 2016

Teaneck, NJ

**Project: Alumni Network**

Alumni Network web application delivers the interactive environment between existing enrolled students and university alumni. The application facilitates features like Private Messaging, Discussion Form, User profile, photos gallery etc.

#### **Responsibility:**

- Developed application frontend using **HTML5, CSS3, Angular 1.5** and backend **RESTful APIs** using **Java** and **JAX-RS**. Used MySQL relational database for data storage
- Implemented User Authentication using **OAuth** and **JWT strategy**.
- Designed responsive mockups from scratch using **Sketch toolkit** with **Bootstrap design layout**.
- Leveraged **two-way data binding** through **scope** in application built on **Angular 1.5**
- Involved in designing the application by creating multiple **controllers** for each separate **route** and created **custom services** to share data among them.
- Used **\$http service** provided by angular to make call to **REST APIs** to render the data.
- Implemented **Model-View-Controller (MVC)** architecture for both frontend and backend design
- Followed **Waterfall Methodology** for application development.
- Responsible for **code optimization** and **testing across the browser**.

**Environment:** HTML5, CSS3, Bootstrap 3, JavaScript, AngularJS, Java, JAX-RS, Maven, MySQL, Apache Tomcat, Ajax, DOM, Waterfall

#### **Education:**

- Master's in Computer Science
- Bachelor of Science in Information Technology