darshakmehta.github.io
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DARSHAK MEHTA

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PROFESSIONAL SUMMARY

Meticulous developer with solid understanding of Agile, MVC, Object-Oriented Programming, Data Structures and Algorithms along with work experience in developing scalable applications with cross-browser compatibility & responsive web-design.

EDUCATION

University of North Carolina at Charlotte, Charlotte, NC　　　　　　　　　　　**Aug 2017 – Dec 2018**
Master of Science in Computer Science　　　　　　　　　　　　　　　　　　　　　　GPA: 4.00
Thakur College of Engineering and Technology, Mumbai, India　　　　　　　　**Aug 2012 – May 2016**
Bachelor of Engineering in Computer Engineering　　　　　　　　　　　　　　　　GPA: 9.02/10

TECHNICAL SKILLS

Programming Languages & Web Technologies:	Java, JavaScript: ES6, HTML5, CSS3, Sass, Bootstrap, PHP, Android
JavaScript Frameworks & Libraries:	Node.js, Express.js, React, EJS, JSX, jQuery - AJAX, NPM, AngularJS
Database Technologies and Web Tools/ Services:	MySQL, MongoDB – Mongoose ODM, Webpack, Mocha, REST, MVC
Version Control & Software Tools:	Git, Jenkins, Tableau, Android Studio, Visual Studio Code

WORK EXPERIENCE

Graduate Assistant, Advising Systems - UNC Charlotte, NC　　　　　　　　　**Dec 2017 – Present**
- Worked on building standalone application using JavaMail API to automate the process of mail merge.
- Contributed in writing script to aid in integration of advising systems using Java, XPath, and Selenium WebDriver
- Analyzed undergraduate student data to predict outcomes for national clinical research trial called IPASS.

Software Engineer, Vistaar Digital Communications, India　　　　　　　　　　**Jan – July 2017**
- Successfully developed AirWayBill for *expressrates* to automate the mundane process of filling the bill, and reduced time and paper cost by storing the information in the relational database using MySQL. Developed the functionality of printing the form and barcode generator for Cargos using PHP. Added feature for user to access and email bills from past three years.
- Worked in a team of developers by following Agile Methodology and utilized Asana as Project Management Tool.
- Worked closely with business leaders, graphic designers, software engineers and Testers.
- Migration of Bootstrap 2 to Bootstrap 3, and successfully achieved challenging task of implementing multiple jQuery versions.
- Key player for developing mobile responsive web-design for *The Great Next* using Photoshop document and CSS3.

Software Engineer, JSquarebiz Solutions, India　　　　　　　　　　　　　　　**June – Dec 2016**
- Designed user-friendly Mobile-First responsive website using Bootstrap and JavaScript (ES5). Improved the number of visitors by following Design Principles such as Consistency, Familiarity and Feedback. Design was cross-browser compatible.
- Database design for integration with server-side PHP using relational Database MySQL. Wrote JavaScript functions to handle form validations and client-side functionality using jQuery. Analyzed UI/UX design for responsive layout for improved usability.

ACADEMIC PROJECTS

Swapping Auction (Node.js, Express.js, MongoDB)　　　　　　　　　　　　　　**FALL 2018**
- Followed MVC Design Pattern to structure the web application and EJS Template Engine with use of Partials. Maintained the session of the web application and validation using Express. Cross browser compatible with Chrome and Firefox.
- Scaled the application by using NoSQL database structure to persist data with help of MongoDB using Mongoose ODM.

Indecision App (React, Sass, Webpack, ES6, JSX)　　　　　　　　　　　　　　**SUMMER 2018**
- Designed reusable User Interface Stateful and Stateless Functional Components using JavaScript Classes and React.
- Block element Modifier methodology to style components in the front-end using Sass and used Webpack build tool.

THEMOVIEDB (Android)　　　　　　　　　　　　　　　　　　　　　　　　　　　**FALL 2017**
- Mobile App to search Movies using REST API, JSON Parsing and Recyclerview to list the results & Picasso for rendering images.
- Implemented Java Custom comparators to sort and search Movies from the searched results to increase usability.

Light Rail Management System (MySQL, Agile)　　　　　　　　　　　　　　　　**FALL 2017**
- Implemented SQL database for Charlotte City, with complete process of booking tickets, checking schedules & routes.
- Implemented Stored Procedures, Stored Functions and Triggers to automate the process of ticket validation.

Amelioration of K-Means Algorithm (Java, Node.js, MongoDB)　　　　　　　**SPRING 2016**
- Enhanced K-means data Clustering Algorithm by calculating initial centroids to provide better clusters, following it reduced the number of iterations and improved the time complexity to filter products based on rating; Video Link: https://goo.gl/tNh8da

EXTRA-CURRICULAR ACTIVITIES

President – 'Triveni Indian Student Association': Represented India at UNC Charlotte, aided around 700 aspiring graduate students.