

Saranya Manoharan

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EDUCATION

- **Worcester Polytechnic Institute (WPI)** Worcester, MA
Master of Science, Computer Science Aug 2016 - May 2018
- **Vellore Institute of Technology** Tamil Nadu, India
Master of Science, Software Engineering July 2007 - May 2012

LANGUAGES AND TECHNOLOGIES

- C++, C#, SQL, Java
- HTML 5, CSS 3, JavaScript, JQuery, Bootstrap
- MySQL, .NET 4.0, GitHub

WORK EXPERIENCE

- **Aware Inc, Biometrics Software - Software Engineer Intern** May 2017 Aug 2017
 - Developed Responsive Web Design (RWD) using HTML5, Bootstrap, CSS3, JavaScript, JQuery.
 - Used AJAX and JSON communication for accessing RESTful web services.
 - Developed Responsive web design to target Mobiles, Tablets and Desktops.
 - Tested the front-end code with multiple browsers to ensure cross-browser compatibility.
 - Worked in Agile methodology and used SVN for version control and JIRA for project tracking.
- **Cognizant Technology Solutions - Programmer Analyst** Dec 2012 - May 2013
 - Designed and implemented web applications using C# and ASP.NET.
 - Enhanced the look-and-feel characteristics of the website using HTML, CSS and JavaScript.
 - Involved in developing database in SQL Server by creating Tables, Views and Triggers and integrate them in the applications.

PROJECTS

- **Preface SDK: Biometric Web Services** Aware, 2017
 - Developed fully functional responsive prototypes using HTML5, Bootstrap, CSS3, JavaScript, JQuery, AJAX, JSON.
 - Incorporated Face Detection in JavaScript via HTML5 Canvas and implemented user interactive session to adjust facial image metrics.
 - Dynamically appended these facial image metrics into XML file.
 - Implemented communication for accessing RESTful web services using AJAX with XML file for image construction.
 - Retrieved constructed image and additional metrics by parsing multi-dimensional JSON objects.
 - Displayed the constructed image and parsed values as XML file with an option to download.
- **GoatRunner Shuttle Service Web Application** WPI, 2017
 - Developed a web application that provides Shuttle Cab booking service to university students and implemented the user interface for the application using HTML5, CSS and JavaScript.
 - Stored the data collected from the UI in MYSQL database for optimum performance and data security.
 - Extensively worked on the interactive layer logic between application and the database using Java using Eclipse IDE.
 - Implemented Google Maps API and Directions API in JavaScript and performed geocoding in Java.
- **Word Sweeper Game Implementation** WPI, 2016
 - Designed and implemented server system for the word game - word sweeper which handled multiple clients.
 - Analysed functional requirements, documented User Stories collaboratively and created Use Cases and Class Diagrams.
 - Designed based on MVC design pattern and implemented it using Java in Eclipse IDE.
 - Extensively worked on developing entity objects which manages the data, logic and the rules of the application and used Singleton and Chain of Responsibility design pattern.
 - Tested the functionality of the application by writing JUnit test cases and ensured the code coverage is above 85%.

CERTIFICATES

- **Diploma in Advanced Computer Programming course** TCPS, India
 - Coursework included Java, C, C++ and achieved National Level 10th rank.