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 University** — Tamil Nadu, India
  Master of Science, Software Engineering — July 2007 – May 2012

LANGUAGES AND TECHNOLOGIES

- Java, C#, SQL, Python
- HTML 5, CSS 3, JavaScript, JQuery, Bootstrap
- Oracle RDBMS, MySQL, .NET 4.0, GitHub, SVN, MongoDB

EXPERIENCE

- **Aware Inc, Biometrics Software - Software Engineer Intern** — May 2017 – Aug 2017
  - Developed fully functional responsive prototypes based on Business Requirements using HTML5, Bootstrap, CSS3, JavaScript, JQuery, AJAX, JSON, XML, RESTful services.
  - Utilized DevTools for debugging process and performed cross browser testing to ensure browser compatibility across multiple browsers.
  - Actively participated in weekly status meeting and adapted working to new features and requirements based on business needs.
  - Worked in Agile methodology and updated weekly work logs using JIRA software.
- **Cognizant Technology Solutions - Programmer Analyst** — Dec 2012 – May 2013
  - Designed and implemented a web application for Online Recruitment Portal in .NET framework using ASP.NET, C#, HTML, CSS, SQL server.
  - Extensively worked on designing and implementing dynamic website using ASP.NET Web forms and integrated ASP.NET Server controls to the webpage.
  - Utilized ADO.NET for database connectivity and performed data retrieval, query, storage and manipulation on SQL Server.
  - Developed database in SQL Server and wrote SQL queries to create tables with SQL constraints.

PROJECTS

- **Preface SDK: Biometric Web Services** — Aware, 2017
  - Incorporated Face Detection in JavaScript via HTML5 Canvas and implemented user interactive session to adjust facial image metrics.
  - Created and implemented a custom CSS grid system, with CSS media queries for mobile responsiveness.
  - Dynamically appended facial image metrics into XML file and communicated with RESTful web services using AJAX for image construction.
  - Retrieved and displayed constructed image and appended parsed multi-dimensional JSON objects to XML file providing an option to download.
- **GoatRunner - Shuttle Service Web Application** — WPI, 2017
  - Developed a web application that provides Shuttle Cab booking service to university students using HTML5, CSS3, Bootstrap, JavaScript, JQuery, Java and SQL.
  - Implemented JDBC connection to connect with the Oracle database to store the data collected from the UI for optimum performance and data security.
  - Incorporated MVC design pattern to implement business logic using Java in Java Eclipse IDE.
  - Implemented Google Maps API and Directions API in JavaScript and performed geocoding in JavaScript.
- **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%.