Neha Mahajan

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SUMMARY:

Neha has over five years of experience in designing and developing web applications. Currently working as a Web Application Developer for VVO product used by the electrical utility industries. Responsibilities include developing new features, product enhancements, requirement gathering, prototyping UI workflows and providing statistical analysis of the data using visualizations like graphs.

EDUCATION & SKILLS:

➢ **MS in Computer Science** from Worcester Polytechnic Institute (**WPI**) with GPA: **3.90/4.00**   **May 15 – Feb 17**
➢ **Programming Languages:**
- Java 8, HTML5 (CSS), JavaScript, jQuery, D3.js, Backbone.js, Chart.js, AngularJS 1/2
- PL/SQL, Android SDK, ActionScript 3.0/2.0, SQLite
➢ **Tools and Software:**
- Eclipse, Oracle VirtualBox VM, Git, Workbench, MariaDB, Atlassian Product Suite (Stash, Bamboo, Confluence, JIRA, SourceTree), Visual Studio Code, Android Studio 2.0, GITHUB, Tortoise SVN, Flash Professional CS3, Adobe Photoshop/XD

WORK EXPERIENCE:

➢ **Utilidata Inc**, Providence RI   **April 17 – Till Date**

The company product AMS is designed to enable electrical and energy companies to manage, distribute and monitor energy efficiently. AMS also provides overview of electrical grids and statistical analysis of energy. The users interact with product through a web interface developed using JavaScript library like jQuery, HTML5, CSS etc.

Role: **Web Application Developer**

Responsibilities:
- As the only employee with UI development skills, work in multiple projects wherever UI changes are involved.
- Collaborate with sales team and users to gather requirement for web interface.
- Create UI wireframes for the company product.
- Design new UI features as per the requirements to enhance the AMS product.
- Develop and test the UI modules and integrate with backend services using Agile – Scrum methodology.
- As a part of product maintenance, fix bugs, refactor code related to existing features of the AMS product.
- Design and prototype UI workflow for sales representative to demonstrate new capabilities of the product.
- Work with graphics team to design new web pages and present demo to the customers for validation.

Software: Java 8, HTML5 (CSS3), JavaScript, jQuery, D3.js, Chart.js, Eclipse, Oracle VirtualBox VM, Git, Workbench, MariaDB, Atlassian Product Suite (Stash, Bamboo, Confluence, JIRA, SourceTree), Visual Studio Code

➢ **Persistent Systems**, Pune, India   **March 13 – June 14**

Worked in a technology services company to provide web-based solutions for desktop and mobile platforms for clients belonging to banking, pharmaceutical, auto services, business etc. domain. Developed a web application for a pharmaceutical company to provide medicine sales information to sales representative. The application facilitated the managers to keep track of sales done within a year and automated the process of manual paperwork to manage sales. Developed an iPad application which allowed easy check-in of cars for servicing at an auto center. Information about the customer, photos and notes recording if any car damage, estimated service delivery date were the major features of the application.

Role: **Senior Software Engineer**

Responsibilities:
- Designed dynamic user interface for car servicing representatives to allow easy check-in of cars onsite using an iPad.
- Led a team of three to design and code various UI modules by defining templates in jQuery to facilitate reusability in the auto service app to display customer information.
- Collaborate with onsite clients to integrate web services into web app.
- Played major role in development of web-based application to extract medicine inventory and sales date and displayed information using graphical interface.
- Designed and developed a working prototype of news feed for company's internal application.
- Developed a web-based application using SAP UI 5: Dev tool kit for HTML5 to compare financial data of companies.

- Developed a proof of concept for a banking application on mobile.
- Design proof of concepts by learning new libraries and provide possible solutions to the clients.

Software: Java, HTML5 (CSS3), JavaScript, jQuery, Backbone.js, JQuery Mobile, JQuery UI, Eclipse, SAP UI 5

➢ **Codewalla**, Pune, India   **July 12 – Mar 13, Dec 09 – Nov 11**

Codewalla is a mobile, web and cross platform App and Game developing company. Worked as Software Engineer to develop mobile and web games for multiple clients which were published on Facebook, App store, BBC etc. SAT/ACT Facebook game was designed to help students prepare for SAT and ACT exam in a fun, interactive and competitive environment. Developed a trivia flash web game and integrated the graphics in the web application game.

Role: **Software Development Engineer**

Responsibilities:

- Led a team of two to implement a SAT/ACT quiz application on Facebook using Agile methodology (scrum).
- Collaborated with business to enrich requirements with details via feedback from Client Demos.
- Manage task estimates and design the workflow based on the game design document.
- Allocation of tasks to developers, resolving issues, planning QA cycles for Sprints.
- Played a role in deploying the games on the production server and providing support to the clients.
- Implemented the UI and functionality for a multiplayer trivia game with MVC architecture and integrated with Red5 media server for real time data updates. Lead a team of two to develop movie maker web and mobile application.

➢ **The Alchemists Ark**, Pune, India   **Nov 11 – July 12**

Developed creative and interactive web-based e-learning courses for auto sales representative. The project concentrated on the user experience, to make the e-learning interactive to engage the user and encourage to complete the course syllabus.

Role: **Software Developer**

Responsibilities:

- Design and develop UI workflow based on storyboard content.
- Integrated interactive graphics by developing a customized video player.
- Designed and implemented questionnaire to track progress in the course.

NOTABLE PROJECTS During MS course at WPI   **May 15 – Dec 16**

➢ **Java**

- Developed a multithreaded Java app for sending public (broadcast) and private messages in a Chat room.Designed and developed the UI graphics and the UI flow.
- Developed a Java application using Facade design pattern to implement detailed Maps for WPI. Dijkstra Algorithm implemented to determine shortest paths between Classrooms/Buildings/Roads. At the front end, used image manipulations with Java Swing to create the user interface.

➢ **Android**

- As a part of Ubiquitous computing course, created a mobile application in Java using Google Activity Recognition API to identify the current activity of a user on android device viz Stationary, Walking, Running, Driving.
- Developed an Android App 'Trackle' that tags the parking location automatically when user gets out of the car and shows the route back to the vehicle with distance and estimated time to reach. Google Maps API, Directions API and Fused Location API are used to retrieve real-time data. (Java and SQLite).

➢ **Data Visualization**

- During the course, developed a web application to help students compare colleges using factors like location, cost, special benefits etc. The project focused on designing and developing visualizations which provided a large amount of comparison data within a limited space which was easy to understand for the students helping them to weigh the pros and cons of selecting any college.

➢ **Other**

- Grader in Computer Networks at WPI: Packet Routing Algorithms, Multiplexing, Queuing Theory, probability theory, etc.

Achievements:

First Prize in Tresensa GameJam Hackathon at Codewalla Inc.