Neha Mahajan

2401 Windsor Ridge Drive,   ☎(425) 658-9534

Westborough, MA 01581   neha.s.mahajan@gmail.com

OBJECTIVE:

Seeking **Full Time** position in Software Engineering: Java, JavaScript, Web and Mobile Development (Android) and Database.

EDUCATION & SKILLS: May 15 - Dec 16

- ➢ **MS in Computer Science** from Worcester Polytechnic Institute (**WPI**) with GPA: **3.90/4.00**

    Courses: Mobile & Ubiquitous Computing, Data Visualization, HCI, DBMS, Advanced Database Systems, Big Data Analytics,

    Design of Software Systems, Algorithms: Design and Analysis, Computer Networks and Cryptography.

- ➢ **Programming Languages & Tools:**
    - ✓   Java, HTML5 (CSS), JavaScript, jQuery Mobile/UI, D3.js, Backbone.js, Underscore.js, SAP UI 5.
    - ✓   Hadoop, MongoDB, PL/SQL, Android SDK, ActionScript 3.0/2.0, SQLite
    - ✓   Eclipse, Android Studio 2.0, GITHUB, Tortoise SVN, Flash CS3 Professional, Adobe Photoshop

WORK EXPERIENCE:

- ➢ Senior Software Engineer, Persistent Systems, Pune, India   **March 13 – June 14**
    - • **Mobile Development:** Lead a team of three to design and integrate UI into an iPad application. Developed templates in jQuery to reuse at multiple places in the app to display data extracted from JSON objects.
    - • **Web Apps:** Developed a web app using MVC architecture to display medicine inventory and sales data fetched from RESTful API and displayed in customized Graphs, scaled per browser window size.
    - • Developed a web app using SAP UI 5: Dev tool kit for HTML5 to display financial data of companies.
- ➢ Software Development Engineer, Codewalla, Pune, India   **July 12 – Mar 13, Dec 09 – Nov 11**
    - • **Object Oriented & Software Engineering Principles:** Worked as a Team lead to implement an application on Facebook using Agile methodology (scrum). Responsibilities: - Collaboration with BA to enrich requirements using feedback from Client Demos, Estimation & allocation of tasks to developers and resolving issues, planning QA cycles for Sprints.
    - • Used ActionScript 3.0 to develop a multi user application (trivia game). Implemented the UI and functionality with MVC architecture. Integration with Red5 media server for real time data updates.
- ➢ Software Developer: The Alchemists Ark, Pune, India   **Nov 11 – July 12**

    Created three E-Learning web apps in Flash & Action Script 3.0 – Creative design of courses for Sales reps.

NOTABLE PROJECTS: May 15 – Dec 16

- ➢ **Java:** - Developed a multithreaded Java app for sending public (broadcast) and private messages in a Chat room.

    - 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.

- ➢ **Android**: - Created an application using Google Activity Recognition API to identify the current activity of a user on android device viz Stationary, Walking, Running, Driving. (Java)

    - 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)

- ➢ **Database**: - Created an Original implementation of relational Db in Java - designing the metadata, manage pointers, maintaining used & free space and implement insert, update and delete operations.
- ➢ **Hadoop**: - Created datasets with 50k customers having 5 million transactions and uploaded to Hadoop Cluster. Created queries using map-reduce jobs in Java to extract metrics on the large data set.
- ➢ **Big Data:** Data gathering from Yelp, FourSquare API, data normalization, statistical analysis of data to filter locations and built Restaurant location recommender using Cluster Algorithm in R.
- ➢ Other: **Grader** in Computer Networks at WPI: Packet Routing Algorithms, Multiplexing, Queuing Theory, probability theory, etc.

Achievements and Extracurricular activities:

First Prize in Tresensa GameJam Hackathon at Codewalla Inc. Choreographer for Indian Dance Shows. Design and Painting.