

# UPASANA YADAV

Innovative and diligent Computer Science enthusiast looking to solve challenging problems in your firm through a Software Development opportunity.

## Education:

**MS in Computer Science,  
New York Institute of Technology, NY**

**Sep 2015 – May 2017  
GPA: 3.76**

**Courses:** Algorithm Concepts, Programming Languages, Computer Architecture 1, Computer Networks, Theoretical Concepts of Computers and Computation, OS Security, Cloud Computing, Java Networking, Database Systems, Distributed Systems.

**B.E in Information Technology,  
University of Mumbai, India**

**Aug 2011 - Jun 2014  
GPA: 3.6**

**Courses:** Data Structures and Algorithms, Object Oriented Analysis and Design, Software Engineering.

## Work Experience:

**Software Developer, JAB Systems, Mumbai, India**

- Developed user interfaces in HTML/CSS, JavaScript.
- Linked front end HTML web pages with back-end database (MS-SQL), communicated with clients to determine specifications, features and discuss business requirements.
- Assisted in developing the user interface for a variety of websites ranging from simple websites with basic layout to websites which had a more complex structure.

## Projects:

**Diabetic Patient Data Analysis: (WEKA, Python)**

- Developed hypotheses to predict whether a patient will be readmitted using clustering/classification.
- Performed data cleaning by eliminating outliers, filling in missing values, binning & discretization.
- Performed classification by using J48 decision tree, InfoGainAttributeEval in Weka to classify data and construct model for prediction.

**Discussion Board: (Java Spring, HTML)**

- Created a Discussion board where users can post a topic and other users can comment/reply to it.
- Added the functionalities to remove old discussions automatically after a period, or to manually delete a discussion.
- Designed the front end in HTML and used Bootstrap to give simple yet beautiful look and feel.


**Cache Simulator: (Java)**

- Created a simulation of cache.
- Implemented Direct Mapped Block Placement strategy and Fully Associative Block Placement strategy for implementing cache simulation.

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## Skills:

**Languages:** Java, C, C++, Ruby Racket, SML

**Databases:** MS Access, MS SQL Server

**Web:** HTML/CSS, JavaScript

**Other:** MS Office, Eclipse, NetBeans

**OS:** Windows, Linux, Mac OS

## Certifications:

Java Certification

## Other Activities:

- Member of Society of Women Engineers (SWE) and IEEE, NYIT.
- Volunteer, Technical Festival, University of Mumbai.
- 1<sup>st</sup> place, Treasure Hunt, University of Mumbai.

**Application Shield: (Java, SQL)**

- Developed intruder detection and prevention System for a Distributed Application.
- Created Graphical User Interface (GUI), organized database build up and managing connectivity.
- Tested in different scenarios about how system handles different attacks

**Security in IMS (Internet Protocol Multimedia System): (OPNET Modeler, Java)**

- Created a simulation of a network and demonstrated how data is transferred under normal circumstances.
- Attacked the system with a flood attack through a jammer and created a mechanism to defend the attack by the jammer.

**Stock Management: (Visual Basic, Java)**

- Constructed application to secure ornaments in jewellery shops using RFID tags.
- Conducted testing of transmitter and receiver behaviour, managed allocation of roles and responsibilities as project leader.
- Developed user interface and created connection of user interface to database.