

## SAMEER MADAN

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### EDUCATION/QUALIFICATIONS

STANFORD UNIVERSITY – MS in Computer Science (HCI)

*GPA: 3.96/4.0 (June 2011)*

- **Interests:** Human Computer Interaction, Web Applications, Artificial Intelligence, Machine Learning
- **Courses:** Web Applications, Intro to HCI, Info. Retrieval & Web Search, HCI Design Studio, Data Mining, iPhone Prog., HCI Research, Machine Learning, Design Thinking, Databases, Cryptography, Aligning Start-ups with Markets
- **Research Assistantship:** With Prof. John Ousterhout on Fiz - Java-based web-app framework (*Jan 2010 – Dec 2010*)
  - Implemented platform-independent and reusable components for mobile phone web-apps built using Fiz
  - Worked on an API for Ajax operations to facilitate the creation of Ajax-centric web applications
  - **Publication:** Integrating Long Polling with an MVC Web Framework (Usenix Webapps, 2011)
- **Technical Skills:** C, C++, Java, Objective C, JavaScript, Python, Ruby on Rails, Spring Framework, PHP, MATLAB

IIT DELHI (Indian Institute of Technology, Delhi) – B.Tech in Comp. Sc. & Engg.

*GPA: 9.23/10.0 (Aug 2009)*

- **Courses:** Artificial Intelligence, Algorithms, Theory of Computation, Operating systems, Computer Networks, Linear Algebra, Probability, Logic, Design Practices in Computer Science, Embedded Systems

### KEY ACADEMIC PROJECTS

**Title: Activity Inspire (Introduction to HCI Design)**

*(Sept, 2009 – Dec, 2009)*

- Developed an iPhone web-application (Ruby on Rails) allowing event search based on (possibly vague) user interest
- Employed a formal design process: Brainstorming and paper-prototyping to implementation and iterative refinement based on user-testing and feedback

**Title: Doodle Tunes (HCI Design Studio – Learning for Kids)**

*(Jan, 2010 – Mar, 2010)*

- Designed a 'white-board' (using an IR pen and a Wii-mote) that allows 'drawing' on a wall and interprets it as music
- Implemented a UI using Processing language and included animated characters which respond to the child's actions
- Conducted extensive user testing with children and modified product features based on feedback

**Title: Automatic Virtual Camera View Generation for Lecture Videos (Machine Learning)**

*(Sept, 2010 – Dec, 2010)*

- Implemented a supervised-learning based system to automate camera operations in a lecture hall setting
  - Used SVMs for panning and zooming decisions and linear regression (rectified with SVM output) to pan the camera
  - Achieved lower error rates than all existing systems, with reference to a manually recorded lecture
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### INTERNSHIPS/THESIS PROJECT

AMAZON.COM, Seattle, USA

*(June 2010 – Sept 2010)*

**Title: Simulator for pre-deployment evaluation of an Amazon service**

- Created a simulator to help evaluate and optimize an Amazon service before deploying it to customers
- Implemented the entire project as a web application using the Spring Framework - Wrote the entire backend in Java and created a user-facing dashboard which shows simulation status and exports results for offline analysis.
- Successfully completed and deployed the project - Received a full-time offer from Amazon

IBM INDIA RESEARCH LAB, New Delhi, India (B.Tech Thesis Project)

*(Aug 2008 – May 2009)*

**Title: Enabling Real-Time User Interests for Next Generation Activity-Oriented Social Networks**

- Built a system (in Java) to tag and classify Twitter micro-blogs and match people with similar interests
  - Created (working in a team of two) a mobile phone based front-end for this system using Android SDK
  - **Publication:** Contextual Analysis of User Interests in Social Media Sites – An Exploration with Micro-blogs (18th ACM Conference on Information and Knowledge Management, 2009)
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### EXTRA CURRICULAR INTERESTS

- Gold medalist at the International Physics Olympiad 2005, competing against participants from 75 countries
- Dance – Salsa and Hip Hop Dance Instructor on Probation at the Salsa India Dance Company since May, 2009
- Dramatics – Acting, Direction and Script-Writing. Involved in all these capacities in 7 play productions in IIT