Malvika Bansal

Portfolio: [http://pages.iu.edu/~bansalm/](http://pages.iu.edu/%7Ebansalm/)

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Professional Experience

Academics

**Collaborative & Social Computing, IUPUI** / Teaching Assistant Aug 2014- Dec 2014

Evaluated graduate student learning for core course.

**Philanthropic Informatics Research Lab, IUPUI** / Research Assistant Aug 2013- May 2015 Developing browser extention, web-crawler and visualization to using D3.js and JavaScript, and studying the advocacy of blogger networks.

**Persistent Systems Ltd., India** / Software Engineer Dec 2012- July 2013 Worked on a prorietary BI tool and created prototypes using Dojo/C++ and as part of a 15 member team.

## Indiana University-Purdue University Indianapolis, USA May 2015

M.S. - Human-Computer Interaction | GPA: 3.76

**University of Pune, India** July 2013

B.E. - Computer Engineering | Class: First Class with Distinction

Core Competence

**Code**

HTML

C/C++

**Tools**

InDesign MS Visual Studio

**Frameworks**

Android SDK

**Design Methods**

Usability Testing

CSS

JavaScript JQuery PHP

C#

D3

Java Dojo

InVision

Proto.io Axure UXPin

Eclipse

Balsamiq

Kinect SDK

Estimote SDK

Interaction Design

Prototyping

Contextual Inquiry Information Architecture

Projects

Achievements

Publications

**Prox (Capstone),** designing for rapid information propogation via localized network of BLE beacons. **OLSM dice,** novel universal-dice physical prototype design using Arduino (Sparkfun Redboard) kit. **Wallfie,** interactive photo-wall prototype design and design process documentation. **Data Morphed Topographies,** guiding touchless interactions with info-visualizations on large displays. **HomeTurf,** app to simulate the experience of community notice boards within a local neighbourhood. **DressWiser,** smart-mirror concept to overcome the hassles of everyday dressing decision making. **Flickr,** usability and UX case study of Flickr website and Android mobile app. **EduPanion,** webapp concept that aids teachers organize content, schedule classes and conduct tests.

**Recipient of IUPUI scholarship**, 2013-2015.

**2nd Runners up**, B.E Project Competition, Impetus & Concepts 2012,PICT, India.

**Completed online HCI course** offered by Stanford University through Coursera.

**Lead Event Cordinator** of the departmental club “Association of Computer Engineers” and college technical event ‘Saga’.

**Recipient** of Maharashtra State Board Scholarship, India, 2008.

Holes, Pits, and Valleys: Guiding Large-Display Touchless Interactions with Data-Morphed Topographies, (poster) Ubicomp 2014.

Gestuelle-A System to Recognize Dynamic Hand Gestures Using Hidden Markov Model to Control Windows Applications, IJCA-International Journal of Computer Applications, Volume 62, No. 17, Jan-2013.

Dynamic Gesture Recognition Using Hidden Markov Model in Static Background, IJCSI- International Journal of Computer Science Issues, Volume 8, Issue 6, Nov-2011.