

## Udai Arora

Masters of Science- Computer Science  
Arizona State University 2013

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### Academics

Level	University/ School	YOC	Percentage / CGPA
M.S. (CS)	Arizona State University, Tempe, AZ	-	-
B.E. (CS)	Manipal Institute of Technology, Manipal	2012	CGPA: 7.72/10 Equivalent Percentage: 71%
10+2	APJ School, SS, New Delhi	2008	84.0%
10	APJ School, SS, New Delhi	2006	80.4%

### Software Proficiencies

- **Web skills:** HTML 5, CSS3, Javascript, JQuery and other Javascript libraries, CSS Frameworks like Bootstrap (by Twitter), PHP, VB. NET, Node.js, MySQL, JSP, Adobe Photoshop, etc.
- **Programming skills:** C, C++, C#, Java, Android Development, etc.
- **Operating systems:** Windows, Ubuntu, iOS, FreeBSD, Android.
- **Misc:** Git/Gitbash, Eclipse, Sublime Text, Microsoft Office, etc

### Work Experience

- **Hewlett-Packard R&D**, Bangalore, India (August 2012 – August 2013)  
Responsibilities included building various **prototypes and User Experience for products**. The User Experience was aimed at elevating technical complexities to a usable product. The prototypes and products included a **Reservation System**- used by gate agents to book tickets and add services; a **Departure Control system**- to manage check-ins. These modules aim to replace the current command line interface used by gate agents and at the same time, maintain their efficiency. A product called **EMD** was also built which is to be used by Airports and Airlines to manage ancillary fees and services. Customers included **Swiss Air, American Airlines, Air China, Brussels and Olympic**. A **Windows 8 app** is currently being developed for the Reservation System. This will be followed by an **Android app** of the same product, thereby giving our Customers a true **Cross-Platform Experience**.

### Internships

- **7 month Industrial Training at Hewlett-Packard R&D, Bangalore from 12<sup>th</sup> January 2012 to 17<sup>th</sup> August 2012:** “Front End Framework Development for a Consumer Travel Platform”
- **2 Month Summer Internship at Videocon, Gurgaon during June-July 2011:** “Design & Development of the Business Intelligence Tool of Videocon”.
- **2 Month Summer Internship at Wipro, Gurgaon during June-July 2010:** “Online Repository Creation and Document Version Control for Wipro-Uninor engagement”.

### Projects

- **Inventory Management System-** This was a freelance project aimed at building an online system which will help a large construction firm manage inventories across various

construction sites and giving different user types, different access rights. The system also included options for generating purchase orders and was successfully deployed.

- Online Portfolio ([www.udaiarora.com](http://www.udaiarora.com))
- Compared efficiencies of different algorithms for checking the status of a connect-4 game.
- Pharmacy Management System as an Object Oriented Programming Project.
- Fantasy Football Manager.
- Google Chrome Extensions to help user change the theme of chrome with a single click.
- Chrome Extension to access apps from the URL bar.
- Implementation of RSA encryption algorithm in C++
- An android application to improve the experience of viewing pictures.

Currently building a Facebook app to help enable “Chat as invisible” mode in Facebook. This will help a FB user to see which of its friends are online without actually turning on the FB Chat. The app will also include an option for notifying the user once a selected friend is online.

### Papers Published

- “Architecture for Raw Data Processing at Sensor Nodes in Semantic Wireless Sensor Networks” Arora, Udai, Kumar, Archana. **International Journal of Computer Applications, New York. Volume 55- No. 12.**  
(<http://www.ijcaonline.org/archives/volume55/number12/8808-3094>)
- “A template system perspective to faster, lower cost and quality web application development” Arora, Udai. **International Journal of Advances in Engineering & Technology, Sept 2012**  
(<http://www.archives-ijaet.org/media/44110-IJAET1009277-A-TEMPLATE-SYSTEM.pdf>)

### Co-curricular activities

- Presented an IEEE paper on SQL Injection in a college symposium.
- Attended the Android development workshop organized by Massachusetts Institute of Technology.
- Completed the SAP 01 certification.
- Attended a workshop on XNA (an IDE for game development) and C#
- Organized a workshop on Open Source development for juniors under IE-CSE.
- Attended a workshop on Adobe Flash (CS4) conducted by IE-CSE.

### Extra-curricular activities

- Placed 5<sup>th</sup> in Table Tennis with over 500 participants in HP Bangalore’s Sports Fest.
- Placed 4<sup>th</sup> in Darts with over 200 participants in HP Bangalore’s Sports Fest.
- Helped organize a blood donation drive in KMC, Manipal.
- Helped organize “Code Wars”, HP R&D’s Hack-a-thon and received a certificate of appreciation from the Director.