Apurv MEHRA

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EDUCATION

AUGUST 2014	Master of Technology in COMPUTER SCIENCE AND ENGINEERING Dual Degree Program, **IIIT - Delhi**, New Delhi Masters Thesis: "Interoperability model for health information systems and associated benefits challenges and approach" Advisor: Dr. Amarjeet Singh CGPA: **9.30/10.0**
MAY 2013	Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING *Finance Specialization*, **IIIT - Delhi**, New Delhi B.Tech Project: "Improving healthcare efficiency using IT" Advisor: Dr. Amarjeet Singh CGPA: **8.16/10.0**
MAY 2008	**Burnpur Riverside School**, CBSE	Final Grade: **86.5/100**
MAY 2006	**St. Vincent's High School**, ICSE	Final Grade: **92.0/100**

WORK EXPERIENCE

SEPT. 2014 *Current*	Research Associate, MUC Group, IIIT - DELHI, New Delhi, India Advisor: Dr. Pushpendra Singh • **iCHS (Interoperable Collaborative Health System)**: Designed and developed a collaborative health information middleware based on Publish/Subscribe paradigm. • **Usable Security**: Desigined and developed an Android based password security scheme for semi-literate health workers. • **Intelligent Query Allocation in Crowd Sensing Systems**: Developed and evaluated a framework for intelligent query allocation in crowd sensing systems. The objective of query allocation scheme was to improve the overall resource utilization of the system. | link to source code
MAY - JUNE 2014	Associate, ZENATIX, Gurgaon, India *Backend Engineer* Worked towards improving the robustness and scalability of the framework which collected data from smart meters and pushed it to the cloud infrastructure for analytics.
MAY- JULY 2011	Summer Intern, HISP - INDIA, New Delhi, India *Bussiness Intelligence for Health Information Systems* Understood the e-Health Infrastructure set up of Himachal Pradesh state in India. Thereafter developed various reports using *Business Intelligence Reporting Tool* for analysis of hospital data.
MAY- JULY 2010	Summer Intern, MUC GROUP, IIIT - Delhi, New Delhi, India *Design and Development of Telemedicine Application* SANA (earlier MOCA) is a MIT based open-source end-to-end telemedicine application in Android. The project invovled designing and developing a Symbian client which could interface with the SANA middleware. | link to source code

Selected Projects

Aug'14	Interoperability model for health information systems and associated benefits challenges and approach. **(Masters Thesis)**
Technologies	*Spring MVC, Hibernate, Liquibase, Javascript, Java , Python, Excel*
	HISP - India had developed a SDMX-HD based module to provide interoperability between two open source health information systems OpenMRS and DHIS2. Objectives included finding problems in current implementation and deploying a working solution across the state. Post deployment I collected hospital data along with weather and pollution data of the same period. Used statistical tools to show correlation between various hospital indicators and external factors.
		link to source code

Aug'12 - May'13	Improving Healthcare Efficiency using IT, B.Tech Project
Technologies	*Android, Python*
	Worked with **AHREF**(Apollo Hospitals Educational and Research Foundation) to study and suggest improvements to their hospital information system. Based on the study we extended **ODK Sensors** to collect data from health sensors on phones over WiFi. Some sensors were interfaced directly while others were interfaced via Raspberry-Pi boards.
		link to project resources

Jan-April 2014	pho-CO-play, *Windows Phone based game controller*
Technologies	*Windows Phone Mango SDK, C#*
	Developed a windows phone application which allowed users to control PC using gestures over WiFi network.
		link to source code

Jan-July 2012	CODECC, *Cloud Based Course Management System*
Technologies	*Google App Engine, Python, Web Technologies*
	Designed and developed a cloud based course management system. The system was built on Google App Engine.	link to source code

Aug-Dec 2012	Blood Bank Module for Health Information System
Technologies	*Spring MVC, Hibernate, Liquibase, Javascript, Java*
	Developed a blood bank management module in OpenMRS. It is currently **deployed** across all the 20 district hospitals of Himachal Pradesh state in India.	link to source code

Scholarships and Certificates

December 2013	ICTD Emerging Researcher Scholarship to attend ICTD pre-conference symposium and ICTD main conference in Cape Town, South Africa.
March 2013	Ranked Top 3% out of 224,160 in Graduate Aptitude Test Exam 2013 conducted by IIT- Bombay. Awarded GATE Scholarship based on result by AICTE, India.

Other Interests

Leadership	Organized Flagship Event 'Techathlon' of Eysa, IIIT-Delhi Tech Fest. Member of Hostel and Mess Committee, 2012 - 2013 , IIIT - Delhi.
Other Hobbies	Swimming, Roller Skating, Traveling and Reading.