

Rohail Mustafa Syed

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OBJECTIVES

To advance the cause of learning and expand the realm of knowledge through research and collaboration with visionaries and thought leaders as part of a world class team. Carry out projects and studies which contribute towards understanding, investigating, designing and developing of viable solutions to interesting and challenging questions. To create market and social value through innovation and entrepreneurship!

EDUCATION

- PhD Information (*In-Progress*) CGPA: 3.787/4.00 2014-Present
School of Information
University of Michigan, Ann Arbor
- BSc Engineering 2010-2014
School of Electrical Engineering and Computer Science (SEECs),
National University of Sciences and Technology (NUST), Islamabad

WORKSHOPS & ONLINE COURSES

- Conducted IEEE Flash Workshop for Engineering Students at NUST 2011
- Participant IEEE Android Development Workshop 2011
- Machine Learning Online Course, Stanford University, USA 2011
- Introduction to Databases Online Course, Stanford University, USA 2011

WORK EXPERIENCE & ASSISTANTSHIP

- Graduate Student Research Assistant (GSRA) at University of Michigan 2014-Present
- Teaching Assistant (TA) for course of Engineering Economics at NUST 2012
- Summer Internship on Android Budget Management Project at NUST 2012
- Paid Research Internship – Android Based Home Automation 2012
Project sponsored by National Radio and Telecom Corporation (NRTC)
- Research Internship – iTeach,uLearn innovative Teaching, universal Learning Project 2013
Project sponsored by National Foundation for Resource Development (NFRD)

RESEARCH/SEMESTER PROJECTS

- Optimizing Search Ranking for Educational Goals 2015-Present
- Real-time Intrinsically Diverse Search engine 2014-2015
- Autonomous Landmine Detection and Mapping System 2014
- Accelerometer-based Virtual Archery 2013
- Android Home Automation System 2012
- Online Crime Reporting System 2012
- Fast Food Order and Delivery System 2007

RESEARCH PAPERS

- Syed, R. and Collins-Thompson, K. Optimizing Search Results for Educational Goals: Incorporating Keyword Density as a Retrieval Objective. 2016
- Collins-Thompson, K., Rieh, S. Y., Haynes, C. C., and Syed, R. Assessing learning outcomes in web search: A comparison of tasks and query strategies. In *Proceedings of the 2016 ACM on Conference on Human Information Interaction and Retrieval* (2016), ACM, pp. 163-172. 2016

COMPUTER SKILLS

- **General Purpose Programming**
C, C++, Java, Python, Visual Basic 6.0
- **Data Processing Programming**
R, Matlab, Octave
- **Web Development (Client-side)**

- HTML5, CSS3, Javascript, JQuery, Flash
- **Web Development (Server-side)**
PHP, MySQL, SQLite
- **Mobile Development**
Android
- **Hardware Development**
Assembly Code, Embedded C, Raspberry Pi

ACHIEVEMENTS

- President's Gold Medal for Academics at NUST 2014
- Won 3rd place award for best Final Year Project 2014
- Academic Merit Scholarship 2010-2014
- Stanford Extended Education Program Advanced 2011 Track Courses 2011
- IEEE-SEECS Chapter Webmaster at NUST 2011
- IEEE-SEECS Chapter Member Executive Committee at NUST 2012
- Certified IBM DB2 Academic Associate 2012
- Chief Minister Academic Achievement Award 2013

PROFESSIONAL INTERESTS

- Information Retrieval
- Human-Computer Interaction
- Artificial Intelligence, Data Mining & Pattern Recognition