

CIRRICULUM VITAE

TALHA J. ANSARI

BACHELOR OF ARTS, PHYSICS AND ECONOMICS, MIDDLEBURY COLLEGE, VT

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EDUCATION

- BACHELOR OF ARTS, Physics, Economics, Middlebury College, VT, 2008 - 12
- CAMBRIDGE UNIV. A-LEVELS, Roots College International, Pakistan, 2006 - 07
- CAMBRIDGE UNIV. AS-LEVELS, St. Mary's Academy, Rawalpindi, Pakistan, 2005 - 06
- CAMBRIDGE UNIV. O-LEVELS, St. Mary's Academy, Rawalpindi, Pakistan, 2003 - 05

QUALIFICATIONS & TEST SCORES

- *Middlebury College* GPA: 3.5 out of 4.0
- *GRE Scores*: Verbal 160 (83%), Quantitative 165 (92%), Analytical 4
- *SAT Reasoning*: Verbal 600, Math 770, Writing 660
- *SAT Subject Scores*: Math II 800, Physics 800, Chemistry 800, Biology-M 800
- *Cambridge A-Levels*: 4 A's in Physics, Chemistry, Biology, Mathematics
- *Cambridge O-Levels*: 7 A's in Physics, Chemistry, Biology, Mathematics, Islamic Studies, Pakistan Studies, Urdu Language, and 1 B in English Language
- *TOEFL (ibt)*: 109 out of 120

SKILLS & EXPERTISE

- *Programming Skills*: Java, JavaScript, Ruby, HTML5, VBA, Python, PHP
- *Software*: UNIX, Mathematica, LabVIEW, Igor, Eclipse, Splunk, AutoCAD, MS Excel, Stata, EViews, Minitab
- *Language Skills*:
 - Urdu: Native in speaking, reading, and writing
 - Hindi: Native in speaking
 - Arabic: Basic in speaking, proficient in reading and writing
 - Mandarin: Basic in speaking
 - Sanskrit: Basic in speaking

ACADEMIC HONORS

- Member: American Physical Society, 2011 - present
- Executive member: National Society for Professional Engineers, 2011 - present
- Saba & Suhail Shaikh' 92 Scholar for 2010, 2011 and 2012, awarded to an international student at Middlebury College for exemplary academic and leadership potential
- Middlebury College Dean's Honor's List for Fall 2008, Spring 2009, Fall 2011, Spring 2012
- Middlebury College Scholar's List for Spring 2010, Fall 2010, Spring 2011
- Middlebury College Interfaith Cooperation Award 2010-11
- Only student in Pakistan in 2007 to score perfect SAT subject scores in all physical sciences
- Member of the preliminary team selected to represent Pakistan in the International Chemistry Olympiad 2006
- Roots College International full-tuition scholarship recipient for Cambridge A-Levels

UNDERGRADUATE RESEARCH INVOLVEMENT

- The curious case of the SR830: Documenting and explaining the deviations of the SR830 lock-in amplifier from a Butterworth-filter based theoretical model (using LabVIEW for experiment control), *for Physics Senior Thesis, Middlebury College, Spring 2012*
- Perceptions in the U.S. of Pakistan's socio-economic policies, *at National Planning & Development Commission, Government of Pakistan, 2011*
- Use of lock-in amplifiers in detecting weak photo-signals from large distances, *for Experimental Physics, Independent Lab Project, Middlebury College, 2011*
- Intelligent Crime Detection at Public Places *at Image Processing Center, National University of Science and Technology, Pakistan, 2010*
- In Trade We Trust: The correlation between trade liberalization and HIV prevalence in sub-Saharan Africa, *with Anil Menon for Regression Analysis, Middlebury College, 2010*
- Documenting Price Puzzle in Pakistan: Positive response of inflationary indexes to a positive monetary policy shock, *at The State Bank of Pakistan, 2010*

WORK EXPERIENCE

- HBO INC. - DIGITAL PRODUCTS, New York, NY Jun. 2012 – present
Development Operations Engineer
 - Analyzed the big data generated by HBO Go applications, using software called Splunk, to explore the correlation amongst various IT server performance metrics, leading to a 10% increase in the troubleshooting process of the web service.
 - Increased the interactivity of HBO's data analysis infrastructure by building two XML dashboards and developing a time-range-picker function.
 - Spearheaded HBO's research on Nginx web servers to replace Apache to achieve a 30% faster response times, and greater configuration flexibility.
- ** DEPARTMENT OF PHYSICS, Middlebury College Spring 2012
Teaching Assistant
 - Assisted students of Electricity & Magnetism introductory course in clarifying complex concepts, understanding homework problems, and devising strategies for problem sets and exams.
 - Led weekly TA sessions, graded assignments, and managed student performance in the course using an Excel grading model.
- ** DEPARTMENT OF COMPUTER SCIENCE, Middlebury College Spring 2012
Teaching Assistant
 - Graded weekly theory and programming assignments of Python based Introductory Computer Science class.
 - Assisted the professor with grade management by maintaining an Excel database for grade assessment.
- ENERNOC INC., Boston, MA Jan. - Feb. 2012
Energy Efficiency Intern
 - Streamlined the data gathering processes by 65% by developing VBA macros for eight complex Excel functions including obtaining electrical consumption, per employee, from the EIA website.
 - Assisted project managers in deploying building management systems and installing network jacks and gateways at eleven commercial sites in Boston.
 - Worked with the hardware engineering team in the internal development of iLon S3 replacement device. Carried out a feasibility study of the product to estimate a 9% reduction in post-launch deployment costs.
- PLANNING COMMISSION, Government of Pakistan Summer 2011
Economic Consultant
 - Researched on the perceptions of Pakistan's developmental policies amongst US think tanks and economists; 40-page report presented to the honorable Prime Minister of Pakistan and accepted for a peer-review.
 - Worked as a part of the 'Growth Strategy' team; researching, compiling and analyzing Pakistan's socio-economic data.

- NATIONAL UNIVERSITY OF SCIENCE & TECHNOLOGY, Pakistan Summer 2010
Research Assistant
 - Gathered and organized literature at the Image Processing Center on a thesis project titled “Intelligent Crime Detection at Public Places” – studied image processing techniques for human recognition.
- BARCLAYS CAPITAL, Islamabad, Pakistan Summer 2009
Summer Analyst
 - Conducted market research and prepared a comprehensive 20-page industry overview report on the telecom sector of Pakistan.
- STATE BANK OF PAKISTAN, Karachi, Pakistan Summer 2009
Research Fellow
 - Conducted econometric research on the presence of ‘Price Puzzle’ in Pakistan – a positive response of inflation to monetary tightening; presented findings to bank’s acting governor during the State Bank’s weekly scholar sessions.
- ** TEAGLE FOUNDATION, Middlebury College 2008 - 10
Research Assistant
 - Research Assistant for Prof. Kathleen Skubikowski on the project ‘Navigating a Liberal Arts Education’. Organized and conducted interviews of liberal arts students in Middlebury and managed project database in coordination with six other liberal arts colleges.
- ** CENTER FOR TEACHING LEARNING & RESEARCH, Middlebury College 2009 - 12
Office Manager
 - Student manager of the primary educational support department at Middlebury College.
 - Managed student-tutor assignments, and served as the point person for students’ academic help.
- ** TECHNOLOGY AND MEDIA SERVICES, Middlebury College 2009 - 12
Audio and Visual Specialist
 - Supported students and professors with media related issues in smart classrooms.
 - Conducted and oversaw college media related events, such as weekly screenings, as a trained 35mm projectionist.

***Represents on-campus jobs*

SCIENCE HONORS & ACTIVITIES

- SAINT MARY’S ACADEMY SCIENCE FAIR 2007 Feb. 2007
Roots College Team Representative
- G.I.K INSTITUTE OF TECHNOLOGY ANNUAL SCIENCE FAIR 2007 Mar. 2007
School Team Leader

- NATIONAL CHEMISTRY TALENT CONTEST, Higher Education Commission Pakistan 2006
Young Science Fellow
 - Selected amongst the top 30 students from Pakistan to represent Pakistan in International Chemistry Olympiad.
 - Attended an intensive chemistry training camp at HEJ Research Institute of Chemistry, University of Karachi.

VOLUNTEER & COMMUNITY SERVICE

- CENTER FOR COLLEGE ACTIVITIES AND LEADERSHIP, Middlebury College Jan. 2012
Cricket Instructor
- AL-SHIFA FOUNDATION HOSPITAL, Islamabad, Pakistan 2006 - 09
Chairman Student's Wing
- INTERNATIONAL ORGANIZATION FOR MIGRATION, Kashmir Oct. - Nov. 2007
Field Volunteer
- ARMED FORCES INSTITUTE OF REHABILITATION MEDICINE, Pakistan Aug. 2006
Scout Intern

LEADERSHIP EXPERIENCE

- *President*, Cricket Club Middlebury College, 2009 - 2012
- *President*, South Asian Student's Association, Middlebury College, 2010-11
- *Co-President*, Islamic Society of Middlebury College, 2010-11
- *President*, Middlebury Model United Nations, 2009-10
- *Treasurer*, Islamic Society of Middlebury College, 2011-12
- *Treasurer*, South Asian Student's Association, Middlebury College, 2009-10
- *First Year Liaison*, Islamic Society of Middlebury College, 2009-10
- *Chairman*, Young Friends of Al-Shifa, Al-Shifa Trust Foundation Eye Hospital, 2007-08
- *Founder*, Roots College Science Club, 2006-07