Shabbar Raza

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Education

Jacobs UniversityBremen, Germany

PURSUING B.S. IN COMPUTER SCIENCE, GRADUATION EXPECTED IN JUNE 2017

08/2014 - PRESENT

• Notable Courses: Algorithms and Data Structures • Formal Languages and Logic • Computability and Complexity • Machine Learning • Operating Systems Lecture and Lab • Programming in C++ • Programming in Java • Software Engineering Lecture and Lab • Statistical Concepts and Data Analysis • Databases and Web Applications • IT Management

Keynesian Institute of Management and Sciences (KIMS)

Lahore, Pakistan

CAMBRIDGE INTERNATIONAL GENERAL CERTIFICATE OF EDUCATION A LEVEL - 3 AS

08/2012 - 08/2014

• Second Highest Achiever in class

Garrison Academy for Boys

Lahore, Pakistan

CAMBRIDGE INTERNATIONAL GENERAL CERTIFICATE OF EDUCATION O LEVEL - 10 A*/As, 1B

08/2008 - 08/2011

• Highest Achiever in class

Project Experience _____

Guided Research - Bachelor Thesis

Jacobs University, Bremen

"Exploring the Feasibility of Automatically Finding Alignments Across Mathematical Libraries"

04/2017 - 08/2017

- · Carried out research in construction of mathematical libraries represented in MMT and on the topic of alignments.
- Wrote an algorithm that outputs alignments among mathematical theories.
- Wrote a word segmentation algorithm using dynamic programming approach, and different string comparison and normalization algorithms.
- · Wrote an algorithm that outputs names of identifiers from four different mathematical libraries using MMT.

Maze Runner RobotJacobs University, Bremen

SOFTWARE THAT ENABLES A ROBOT WITH A LASER RANGE FINDER TO AUTONOMOUSLY FIND ITS WAY OUT OF A MAZE

03/2016 - 04/2016

- Wrote separate packages for parsing and analysis of scanned data from sensors, and for physical execution of decisions.
- · Learned and practiced software modularization, testing, documentation, and project management methodologies.
- https://github.com/JacobsUniversitySELab2016S/se-lab-team-6

MUNManager Jacobs University, Bremen

A WEB APPLICATION AS A MANAGEMENT PLATFORM FOR THE ATTENDANTS AND ORGANIZERS OF MUN CONFERENCES

10/2015 - 12/2015

- Designed and implemented the database and wrote queries for specific tasks.
- Used GoogleMaps API with JavaScript to add one-click display of geographical location of the MUN conferences.
- Used JQuery with Bootstrap for pop-up forms, sliding menu, and navigation between sections.
- https://github.com/nickles-lee/ConCordinate

MusicBall Jacobs University, Bremen

AN AUDIOVISUAL MUSICAL INSTRUMENT

01/2016 - 01/2016

- · Designed and implemented an application that produces different sounds and corresponding visual effects upon different inputs.
- Learned to program sounds and graphics, and to use object classification in a new domain while working with Processing.
- https://github.com/mgladkova/musicBall

Practical Experience

Voluntary Intern

Bremen, Germany

DFKI - ROBOTICS INNOVATION CENTER

06/2016 - 08/2016

- Worked on describing, and modelling of robot components using URDF and Solidworks.
- Worked on documentation of a software which served as prototype implementation of a paper on robotic simulations.

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Intern Bremen, Germany

FRAUNHOFER - MEVIS 06/2016 - 08/2016

- Worked on building a web application using Django framework.
- · Wrote installation scripts for a server setup for both Ubuntu and Windows.

President - Undergraduate Student Government (USG)

Bremen, Germany

JACOBS UNIVERSITY

09/2016 - 09/2017

• Served as the head of Undergraduate Student Government which is the representative organization of all undergraduate students at Jacobs University Bremen.

- Facilitated communication between university administration and the student body.
- Introduced reforms in USG elections, finance management, disciplinary regulations, outreach methods, having impact on the USG, the student body, and the University.

Intercultural Trainer Bremen, Germany

JACOBS UNIVERSITY

08/2015 - 08/2016

• Trained freshmen about intercultural competencies and skills on how to survive and thrive in a multicultural and academically challenging community such as Jacobs.

Student Assistant - Summer Camp Life Sciences 2015

Bremen, Germany

JACOBS UNIVERSITY

05/2015 - 05/2015

Organized and facilitated the execution of all social activities and events at campus, and excursions off-campus for a diverse group of
accomplished participants.

Instructor at LUMS Model United Nation (LUMUN) - Social Responsibility Program

Lahore, Pakistan

LAHORE UNIVERSITY OF MANAGEMENT AND SCIENCES (LUMS)

06/2013 - 07/2013

- Designed curriculum and tutored group of underprivileged students at a charity summer school.
- · Planned and supervised educational group activities for students, such as memory exercies, and number games.

Skills and Achievements ____

AWARDS

2017	Cultural Understanding and Diversity Award , Jacobs University Bremen	Bremen, Germany
2013	Best Intern Award, LUMUN - Social Responsibility Program	Lahore, Pakistan
2012	43rd Position Nationally, Kangroo International Mathematics Contest	Lahore, Pakistan

PROGRAMMING

Advanced knowledge: C, C++, Java, SML, Scala, JavaScript, ET_EX, Git, Multi-Threaded Programming, HTML, CSS **Working knowledge:** C#, Python, R, Matlab, MySQL, Prolog, Processing, Arduino, HTML5, PHP, XML, JSON, Unit Testing

PC KNOWLEDGE Linux, Apache, REST, AJAX, Embedded Systems, Solidworks, MATLAB, ROS, Django, Microsoft Access, Excel, Word, and PowerPoint.

LANGUAGES

Englishsecond languagePunjabiworking knowledgeGermanbasic knowledgeHindiworking knowledge

Urdu mother language

S. Shallon Raza

INTERESTS AND HOBBIES Books, Oratory, Poetry, Badminton, Event Management

Shabbar Raza

Bremen, December 10, 2017.