Shabbar Raza

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Education

Jacobs University   *Bremen, Germany*

B.Sc. in Computer Science, Class of 2017   *08/2014 - PRESENT*

- Notable Courses: Algorithms and Data Structures • Formal Languages and Logic • Computability and Complexity • Machine Learning • Operating Systems Lecture and Lab • Electrical Engineering 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

Practical Experience

HR Forecast   *Bremen, Germany*

Project Manager/Software Developer   *01/2018 - Present*

- Managing software product development for software projects involving experts with diverse backgrounds spread across multiple regions.
- Working on data acquisition, mining, and analysis projects.
- Implementing REST APIs and other applications for information retrieval and presentation.

DFKI - Robotics Innovation Center   *Bremen, Germany*

Voluntary Intern   *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 for a paper on robotic simulations.

Fraunhofer - Mevis   *Bremen, Germany*

Intern   *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.

Jacobs University   *Bremen, Germany*

President - Undergraduate Student Government (USG)   *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.

Lahore University of Management and Sciences (LUMS)   *Lahore, Pakistan*

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

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 on 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, with different string comparison and normalization algorithms.

Maze Runner Robot
Jacobs 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

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

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

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, LaTeX, Git, Multi-Threaded Programming, HTML, CSS

Working knowledge: C#, Python, R, Matlab, MySQL, Prolog, REST, OData, ODBC, JDBC, SOAP, Arduino, HTML5, PHP, XML, JSON

PC Knowledge Linux, Apache, AJAX, Solidworks, ROS, Django, Microsoft Access, Excel, Word, and PowerPoint.

Languages

English	second language	**Punjabi**	working knowledge
German	A2 Level	**Hindi**	working knowledge
Urdu	mother language		

Interests and Hobbies Books, Oratory, Poetry, Badminton, Event Management

S. Shabbar Raza

Shabbar Raza
Bremen, April 9, 2019.