Shabbar Raza

Address: Wiesbadener Strasse 9, 28199 Bremen, Germany

+49 (176) 6699 8518 | mail@shabbarraza.me | ShabbarRaza.me | ShabbarRazaPk94 | ShabbarRazapk94

Education

Jacobs University   *Bremen, Germany*

B.Sc. in Computer Science, Class of 2017   *08/2014 - 08/2019*

- 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 - 08/2019*

- Supervised software product development for projects involving experts from diverse scientific and technical backgrounds.
- Revamped software security and data protection frameworks for enterprise solutions.
- Worked on data acquisition, mining, and analysis projects.
- Implemented REST APIs and other applications for information retrieval and presentation.

DFKI - Robotics Innovation Center   *Bremen, Germany*

Voluntary Intern   *06/2016 - 08/2016*

- Worked on modelling and simulation of robot components using URDF and Solidworks.
- Worked on documentation of software which served as prototype implementation for a project on human-computer interaction.

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 at large.

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 a group of underprivileged students at a charity summer school.
- Planned and supervised educational activities, such as memory exercises, 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, optimized for the specific flavour of input strings.

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 inference and 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 particular 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, DevOps, AWS, IaC

Working knowledge: C#, Python, R, Matlab, SQL, PHP, Docker, Kubernetes, Prolog, REST, JDBC, SOAP, Arduino, ROS, HTML5

PC Knowledge Linux, Apache, NGINX, Solidworks, Tableau, Zeplin, Microsoft Power BI, Access, Excel, Word, and PowerPoint.

Languages

English	native/bilingual	**Punjabi**	working knowledge
German	professional proficiency	**Hindi**	working knowledge
Urdu	native/bilingual		

Interests and Hobbies Event Management, Photography, Oratory, Poetry, Badminton, Biking

Shabbar Raza

Bremen, November 25, 2019.