Asjad Sohail

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Born on the 29th January,1994 in Karachi, Pakistan
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Personal Statement

As a person who believes in hard work, I am a highly motivated and self-driven individual. During my undergraduate studies, I have learned many new technologies and developed several projects, encompassing different domains, from games to cloud security. This is an indicator of my passion and motivation to explore new horizons and tackle challenges in pursuing perfection.

University Education

April/2018 – onwards	**University of Paderborn, Germany** Computer Science, Data Science (Major) Master of Science in Computer Science
January/2013 – December/2016	**NED University of Engineering and Technology, Pakistan** Computer and Information Systems Engineering, Bachelor of Engineering **Final Year Project: "Optimizing Big Data Processing Using SDN"** The main objective of this project was to monitor the bottleneck issues of packet execution time and optimizing network traffic by best fit techniques using Software Defined Networking (SDN) accompanied with Big Data Frameworks such as Sparks and Hadoop.

Professional Experience

June/2018 – May/2020	**Research & Innovation – Software Engineer** Diebold Nixdorf – Implementation of frontend and backend applications. (Java, Python, Golang) – Design of smartphone applications using different technologies (Angular, React, Flutter)
December/2016 – February/2018	**Research & Development – Software Engineer** Gaditek – IPTables to provide security to the users using the servers of VPN. Making only certain ports and IPs available. – Squid and SSL Proxy which is used in the application. – Using Logstash and Elasticsearch to keep the logs of the customers. – VPN on DD-WRT firmware in router using C, C++, Javascript, HTML, CSS, Python and Bash. CSS, HTML, Javascript are used to make pages when the user installs the application from the server. C++ is used to populate the pages as it checks for the firmware if it is either DD-WRT or TOMATO. Python script runs to install the applet while bash is used for operations in the

	firmware.
January/2016 – December/2016	**Research Student** High Performance Computing Centre, Karachi – Configuring Hadoop, Apache Spark and Apache Cassandra in a multi-node environment. – Configuring Mininet and OpenDaylight with multi-node Hadoop, Apache Spark and Apache Cassandra.

Projects

- **Checkers Game:** The main features of this project were implementing a decent user interface with limited resources and the ability create bots that evaluated different moves and made intelligent decisions.

- **Fact Checker**: Built a corpus-driven fact-checking engine, which returns a confidence value between -1 (fact is false) and +1 (fact is true) given a fact from DBpedia.

- **Acidic 2D:** is an Android only game which had two different kinds of alien cats that were to be shot down using a cannon with two different kinds of ammo provided.

- **TV Show Database:** in which you can login and manage all the shows that you've watched and rate it and review it. It was kind of a social media platform inspired from the popular **myanimelist.net**.

- **Chat Bot:** A chat bot where different kinds of datasets can be uploaded, and different algorithms can be evaluated against them. Speech to text was implemented for uploading, managing the datasets and the users.

Publications

- Optimizing Big Data Processing using Software Defined Networking in International Journal for Computer Science and Network Security.

Courses & Workshops

- Machine Learning by Stanford University on Coursera.
- Hadoop and Big Data Framework, High Performance Computing Centre, NEDUET Karachi

Special Skills and Interests

Languages	**English** (7.0 IELTS), **Urdu** (Native), **German** (A2)
Computer Skills	Python, Java, MATLAB,
Interests	Artificial Intelligence, Big Data Analytics
Hobbies	Basketball, Football, Video games, Table Tennis, Badminton Chess