



## Muhammad Yasir Junaid

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**Nationality:** Pakistani

### WORK EXPERIENCE

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- March 2021 – In Progress      Research Assistant      *(Work Student)*  
**Fraunhofer Institute for Software and Systems Engineering ISST**  
➤ Support the Conception and Development of digital health applications, taking into account the legal framework (e.g., DVG, E-Health Act)  
➤ Model and implement the necessary workflows and applications and ensure interoperability and integration with the systems to be connected on the basis of established standards.  
***Technologies:*** Java, Docker, KeyCloak, LDAP, Vagrant.
- Feb 2020 – Oct 2020      Senior Software Engineer      *(Full Time)*  
**Synametrics Technologies**  
➤ Design and implement multiple modules on their client-based products: Xeams and Syncrify.  
➤ Developed Xeams as a Service (XAAS), which provides an option for companies to use the existing product Xeams hosted on a third-party cloud services like AWS, Azure, Wasabi etc.  
➤ Developed a feature in Syncrify in which user have an option to back up all their data to third party cloud services like AWS, Azure, Wasabi etc.  
➤ Managed and trained junior engineers, also provide support to enhance the security of products related to cryptography and anti-viruses.  
***Technologies:*** Java, BitBucket, JIRA, Confluence, AWS, Azure, Synametrics Rapid Application Development Framework (SRADEF)
- Nov 2019 – Feb 2020      Research Associate      *(Full Time)*  
**National Centre for Cyber Security (NCCS)**  
➤ Researched and explore on multiple tools like ClamAV antivirus, Sandboxing techniques, Malware analysis, KaliLinux tools.  
➤ Participated in research and technical documentation of End Point Protection domain and in Mobile Forensics domain.  
***Technologies:*** C, C++, Python, Security Information and Event Management (SIEM).
- Apr 2018 – Oct 2019      IT Application Consultant      *(Full Time)*  
**Bayer Pakistan (Private) limited**  
➤ Part of Country Platform team of Information Technology which assist Crop sciences, Pharmaceuticals and Consumer Health business domain.  
➤ Design and developed modules in Asset Management System (AMS) to make it more efficient and securing the confidential data of their users as per Bayer Global guidelines.  
➤ Developed an ECode application which basically is part of compliance structure having sort of permission-based workflow in local and foreign

- conferences, advertisements and visits.
  - Provides assistance and specify automation needs in Crop Sciences business like applications such as Kitabcha, Click and Go, BConnect.
  - Worked with Pharmaceuticals and Consumer Health managers to enhance their sales through IT by introducing automation tools like Jotter for web-based administration and Baystar for iPad based medical representatives.
  - Also deals with the HR based Time Information Systems (TIS), Human Capital Management (HCM) and Harmony (internal tool) by helping in deployment phase from third party vendors.
  - Provide assistance and support to users for SharePoint systems as per Bayer global guidelines.
- Technologies:** ASP.Net, C#, MVC, PHP, Java, JavaScript, HTML, SQL, SharePoint, Tableau, SAP authorization.

Feb 2018 – Jun 2018      Visiting Faculty      *(Part Time)*  
**SZABIST University**

- Taught C Programming language (ME-2301-T) course to the first-year students of Mechatronics Department.

Apr 2017 – Mar 2018      Software Engineer      *(Full Time)*  
**TPS Pakistan Private Limited**

- A part of core development team in Service Delivery – Switching department.
  - Modifications for existing switch (IRIS – C++ based product) for banks of Pakistan namely Habib Bank, United Bank Limited (UBL), Allied Bank for their Alternate Delivery Channels (ADC) such as ATMs, Online Banking, Mobile Banking and Online Payments gateways.
- Technologies:** C, C++, C#, MVC, MS-SQL, PL/SQL, Oracle, Hardware Security Module (HSM) and SOAPUI.

Jan 2017 – Apr 2017      IT Executive      *(Full Time)*  
**XDReader Private Limited**

- Manage different projects according to their Timelines.
- Technologies:** C#, C++, PHP, WordPress, Big data and Machine learning.

Dec 2015 – Dec 2016      Research Assistant      *(Voluntarily)*  
**HPCC (High Performance Computing Centre)**

- Researched on Cyber Security modules like Cryptography and Hybrid Algorithms such as XOR-CIPHER, ROT-13 and implementation of Advance Encryption Algorithm (AES) in parallel computing.
  - Enhance the processing power using GP-GPUs with OpenCL and CUDA programming frameworks.
  - Implementation of Rest API for communicating the end user's application with the trusted third-party encryption server & storing the files on Cloud.
- Technologies:** C++, OpenCL, HTML, CSS, JavaScript, Python, XML.

Jun 2015 – Jul 2015      Internee      *(Apprenticeship)*  
**Inseyab Consulting & Information Solutions LLC**

- Provide support on the ongoing industry projects and gain training on Business Intelligence tools. Evaluate metrics and perform data analytics.
- Technologies:** MicroStrategy, Java, Python, JavaScript.

**Job Related Skills**

**General Programming:** C, C++, C#, Java, Python

**Web Development:** ASP.NET, JSP, JavaScript, HTML/CSS, WordPress, PHP

**Databases:** SQL-Server, Oracle, MySQL, MongoDB, Apache HBase

**Operating Systems:** Windows Server, Linux Server (RedHat, Ubuntu, openSUSE)

**Tools and Automation:** GitHub, Git GUI, Atlassian JIRA, Confluence, Bitbucket, Microsoft Teams, SharePoint, Visual Studio, Office, MicroStrategy, Tableau, SOAPUI, MATLAB, Proteus, Easy NN, Shell/Perl.

## EDUCATION

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2020 – In Progress      Masters in Data Science (M.Sc.)  
**Technische Universität Dortmund**, Dortmund (Germany)

2013 – 2016      Bachelor of Engineering (Computer & Information System Engineering)  
**NED University of Engineering and Technology**, Karachi (Pakistan)  
**Final Year Project:** “Secured and Optimized Solution for Accessing Cloud”- sub module of Cloud Data Security. The purpose of this project is to provide SaaS application to end-user for storing the data in secure and efficient manner through third-party encryption server.  
**Research Based Project:** Pakistan National Student Satellite Program (PNSSP), SUPARCO  
**Scholarship:** Received a “Merit Scholarship” by Pakistan London Foundation (PLF)

## ADDITIONAL INFORMATION

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**Online Courses and Certifications**

- Python Basics by University of Michigan on Course Era, <https://www.coursera.org/account/accomplishments/verify/4A9CSYPCHPW6>
- Information Security: Context and Introduction by University of London & Royal Holloway, University of London on Course Era, <https://www.coursera.org/account/accomplishments/verify/R6WX7JD8TM94>
- Structuring Machine Learning Projects by Deeplearning.ai on Course Era, <https://www.coursera.org/account/accomplishments/verify/SSP9W4JXHQ59>
- Project Management: The Basics for Success by University of California, Irvine on Course Era, <https://www.coursera.org/account/accomplishments/verify/JFLJT43RWTNV>
- Certificate in Information Technology (TTC) – July 2010
- Certificate in C Language (Computer Collegiate) – July 2013
- Certificate in Dot net framework 4.5 (SSUET) – September 2014
- Programming and Interfacing of AVR Microcontroller (NED) – July 2014
- Web Engineering Course (NED) – February 2015
- Islamic Code for Trade & Business (IBA-CEIF) – August 2017

**Languages Skills**

English C1/Good User	Urdu/Hindi Native
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