Muhammad Yasir Junaid

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Nationality: Pakistan

WORK EXPERIENCE

Jan 2023 – Present	**Senior Software Engineer**

Wingcopter GmbH

➢ Design, develop, and test high-performance Java-based services in a complex system landscape.
➢ Worked on modem manager and LTE Hub and implement the algorithms to gather and process the data from UAVs.
➢ Accompany the software project from design, debug to production and documentation of software architectures and know-how transfer.
➢ Troubleshoot and investigate the anomalies in the critical applications deployed in different architectures.

Technologies: Java, Spring Boot, C, C++, Python, KVM, Apache Kafka, Kubernetes, Github, Visure, Miro, Confluence, Jira, Rest APIs, MySQL, Shell scripting, Linux, Cmake

Nov 2021 – Dec 2022	**Software Engineer**

Advaneo GmbH

➢ Maintain and support the existing portfolio of applications which includes data marketplace and secured data hub.
➢ Design, develop and maintain the big data flow automation and processing tool with IDSA connector integration and data hub in a secured computing platform.

Technologies: Java, Spring Boot, mongoDB, PostgreSQL, Gitlab CI, Shell scripting, NextCloud, Apache NiFi, Kafka, Keycloak, Python, Gitlab, IBM Cloud, Rest APIs, Azure, Linux, Confluence, Jira

March 2021 – Nov 2021	**Research Assistant**

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)
➢ Worked on integration of KeyCloak (IAM) and also developed its user management application.

Technologies: Java, Spring Boot, MySQL, Vaadin, Docker, KeyCloak IAM, LDAP, Vagrant, Shell, Linux, Jira, Confluence, GitHub

Feb 2020 – Oct 2020	**Senior Software Engineer**

Synametrics Technologies

➢ Developed Xeams as a Service (XAAS), which provides an option for companies to use the existing product Xeams – a spam filtering product hosted on a third-party cloud service 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.

Technologies: C++, Java, Cmake, MySQL, Bitbucket, JIRA, Confluence,

AWS S3, Azure Blob storage, Synametrics Rapid Application Development Framework (SRADEF), Linux, Shell scripting

Nov 2019 – Feb 2020	Research Associate

National Centre for Cyber Security (NCCS)

➢ Researched, explore and modify multiple tools like ClamAV antivirus, Sandboxing, Malware detection, and KaliLinux tools.
➢ Participated in research and technical documentation of End Point Protection domain and in Mobile Forensics domain.

Technologies: C, C++, Gnu DeBugger (GDB), CMake, Shell scripting, Python, Security Information and Event Management (SIEM), Linux.

Apr 2018 – Oct 2019	IT Application Consultant

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 secure the confidential data of their users as per Bayer Global guidelines.
➢ 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.

Technologies: ASP.Net, C#, MVC, PHP, Java, JavaScript, HTML, MySQL, PostgreSQL, SharePoint, Tableau, SAP authorization, Shell scripting, PowerShell, Python, Linux., Confluence, GitHub.

Feb 2018 – Jun 2018	Visiting Faculty

SZABIST University

➢ Taught C Programming language (ME-2301-T) course.

Apr 2017 – Mar 2018	Software Engineer

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#, MS-SQL, PL/SQL, Oracle database, Hardware Security Module (HSM), SOAPUI, Linux Redhat, Cmake, Shell Scripting

Dec 2015 – Dec 2016	Research Assistant

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 programming frameworks.

Technologies: C++, C, OpenCL, Cryptography, HTML, CSS, JavaScript, Linux, Advanced Encryption Algorithm (AES), Cmake, Shell Scripting

Jun 2015 – Jul 2015

Internee

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, Microsoft SQL, Shell Scripting

Job Related Skills

<u>**General Programming:**</u> C, C++, OpenCL, C#, Java, Python, R

<u>**Web Development:**</u> Spring Boot, Vaadin, ASP.NET, JSP, JavaScript, HTML/CSS, WordPress

<u>**Databases:**</u> SQL-Server, Oracle, MySQL, PostgreSQL, MongoDB, H2

<u>**Operating Systems:**</u> Windows Server, Linux (RedHat, Ubuntu, openSUSE)

<u>**Tools and Automation:**</u> GitHub, Git GUI, Gitlab, Ansible, Atlassian JIRA, Confluence, Bitbucket, Microsoft Teams, SharePoint, Visual Studio, Tableau, SOAPUI, MATLAB, Proteus, Easy NN, Shell/Perl, Visure, Draw.io.

EDUCATION

2020 – In Progress

Masters in science (**Data Science**)

<u>Technische Universität Dortmund</u>, Germany

2013 – 2016

Bachelor of Engineering (<u>**Computer & Information System Engineering**</u>)

<u>NED University of Engineering and Technology</u>, 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 using GP-GPUs.
Technologies: C++, Java, OpenCL, AES cryptographic algorithm, REST and SOAP api's, Openstack Cloud, Shell scripting, Cmake

Research Based Project: Pakistan National Student Satellite Program (PNSSP), SUPARCO (Second and third year). Developed a space segment sub system called payload processing unit (PPU) which process the data and send to ground segment systems.

ADDITIONAL INFORMATION

Online Courses and Certifications

- <u>Kubernetes for the Absolute Beginners</u>
- <u>Python Basics</u>
- <u>Information Security: Context and Introduction</u>
- <u>Structuring Machine Learning Projects</u>
- <u>Project Management: The Basics for Success</u>

Languages Skills

English	German	Urdu
C1/Good User	A1	Native