HIDAYAT UR REHMAN

Date of birth: 10/01/1999 | **Nationality:** Pakistani | **Sex:** Male | **Phone:**

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● ABOUT MYSELF

LinkedIn: https://www.linkedin.com/in/hidayatkhan013

● WORK EXPERIENCE

01/04/2024 – CURRENT Remote, United States
SOFTWARE ENGINEER LOGICIEL SERVICES LLC USA

- As a Software Engineer at Logiciel Services, I focus on implementing the FIX protocol to streamline financial trading processes.
- Utilizing modern C++ techniques, my aim is to optimize the delivery of financial orders to the New York Stock Market.
- Leveraging ALMA Linux, I ensure swift transmission of financial messages to pertinent entities.
- As a core team member in financial message processing, our primary goal is to guarantee the fastest possible flow through the FIX Engine.
- Migrate a mega project from Influx DB v1 to Influx DB v2.
- Optimize the Influx DB v2 opensource pre-compile header and introduced smart pointer for better memory management.
- Migrated a medium level project from old database to PostgreSQL.
- Introduce a Boost Multithreading in a medium level project to enhance its performance.
- Implement queuing functionality in stock order processing software based on FIX protocol.

01/12/2022 – 31/03/2024 Islamabad, Pakistan
SENIOR SOFTWARE ENGINEER AVANZA SOLUTIONS PVT LTD.

- As a Senior C++ Software engineer at Avanza Solutions, I development and optimize software solutions.
- Architecting and implementing high-quality applications.
- Provided technical leadership, collaborated with cross-functional teams, and ensured the delivery of scalable and performant software.
- My expertise in C++, problem-solving skills, and continuous improvement mindset will contribute to the success of the organization.
- Customer Support to various Banks of Pakistan.
- Design and implement efficient, reliable, and maintainable C++ code for various software applications and components.
- Collaborate with product managers, software architects, and other engineers to define software requirements, specifications, and architecture.
- Debug and troubleshoot software defects, proposing effective solutions and ensuring timely resolution.
- Deployed as a resident engineer at U Microfinance Bank.
- Deployed RAAST Payment system Module at U Microfinance Bank.
- Collaborate with various teams for smooth project development and deployment.

07/03/2022 – 28/10/2022 Leipzig, Germany
DEVELOPMENT ENGINEER C++ SEDENIUS ENGINEERING GMBH

- Sedenius Technology is an innovative technology company where I worked as a C++ development Engineer.
- At Sedenius, we focused on developing cutting-edge software solutions using C++ to address complex challenges in various industries.

- At Sedenius I contributed to the design and implementation of high-performance applications, leveraging my expertise in C++. programming, memory management, and optimization techniques.
- Collaborating with a talented team, we aimed to deliver reliable, efficient, and scalable software solutions that met the specific needs of our clients.
- At Sedenius, we embraced the latest C++ standards and utilized modern development practices to create robust and maintainable code.
- Optimize code for performance and memory usage, identifying and addressing bottlenecks and ensuring smooth execution.
- Participate in code reviews, providing constructive feedback and adhering to coding standards and best practices.
- Continuously research and stay up to date with the latest developments in the C++ programming language and related technologies.
- Mentor and guide junior engineers, sharing knowledge and best practices to foster a collaborative and learning-oriented environment.
- Completed one mega project for CARIAD – Automotive Software for Volkswagen.
- Gain Master of CMake Certification.

20/09/2021 – 01/03/2022 islamabad, Pakistan
CYBER SECURITY RESEARCHER SHAHEEN FOUNDATION PAKISTAN

- As a SOC (Security Operations Center) analyst, I specialized in cyber security and played a crucial role in safeguarding organizations' digital assets.
- I monitored and analyzed security alerts and incidents, investigated potential threats, and responded to security breaches.
- With an understanding of security technologies, protocols, and industry best practices, I implemented proactive measures to identify vulnerabilities, mitigate risks, and ensure the confidentiality, integrity, and availability of critical systems and data.
- Through continuous monitoring, incident response, and threat intelligence analysis, I helped maintain a robust security posture for the organization.
- Served as SOC Analyst L2 Support.
- modified an open-source ticketing system written in Python and MySQL to keep track of the goals of the organization.
- Honeypot Modification and integration was my key responsibility.

EDUCATION AND TRAINING

09/2024 – CURRENT Oulu, Finland
MASTER OF COMPUTER SCIENCE AND ENGINEERING. university of Oulu Finland

2021 – 2023 Islamabad, Pakistan
MASTER OF CYBER SECURITY Air University

2017 – 2021 islamabad, Pakistan
BACHELOR IN COMPUTER SCIENCE Air university

LANGUAGE SKILLS

Mother tongue(s): **PUSHTO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Git | Microsoft Office | C++ | SQL | C | Github | RESTful api | Jira | Design Patterns | Microservices | Object-Oriented Programming | JSON | Agile (Scrum) | REST | Code Review | Continous Integration | AUTOSAR | Unit Testing | Cmake | MySQL | Python | UML | Jenkins | Linux | microsoft teams | middleware C++ programming | multi theading and mutiprocessing | Memory managment | SVN | Redmine | Socket programming | Unit testing | AUTOSAR Protocol | XML | SOAP | HTML | Postman | canoe | Mock testing | Google tests | Financial Trading | Stocks trading | FIX Protocol | Modern C++ Boost Library | Linux / Centos; | Debugging tools: adb, gdb, VS Debugger | Atlassian stack (Jira, Confluence, ...) | Stock/Inventory Control | Stock markets | PostgreSQL and MariaDB | INfluxDB | AVL Boost (avanced) | Experience in MATLAB, python, and R | Python(pandas,matplotlib,numpy,etc)

HONOURS AND AWARDS

01/05/2019
Best Bridge Binder – Air University

VOLUNTEERING

Islamabad
Bloood donor

PROJECTS

Advance persistence threats APT detection tool using Machine learning

- Use a paid data set to train various Machine learning and Deep learning models for thedetection of APTs.
- With continuous progress achieved 99.9% accuracy of machine learning Model.
- Developed a prototype in which the http, tcp and udp is captured using NPCAP library andthan extract features from it.
- The extracted features are then pass to a ML model deployed on local network developed ina Flask python framework.
- The model predict the decision and then the decision is saved in a checklist framework.
- Write here the description...

External USB plugin Monitoring Tool

external USB plugin Monitoring Tool is a tool which you can track which external device is connected to the system

File and Directory Password Encryption and Decryption tool

Open-source Tool which encrypt and decrypt a directory and files using password.

Dark Web Crawler

crawler which writes it in the onionlinks.txt then the crawler will automatically collect the internal URLs and save them in a queue. The crawler will start crawling the URLs one by one using multithreading and multiprocessing techniques.

CONFERENCES & SEMINARS

islamabad
IBCAST 24

Advance persistence threats APT detection tool using Machine learning

Islamabad
IBCAST 23

Participated in IBCAST 23 and present "An ensemble learning model for the detection of phishing attacks"

- ## CERTIFICATIONS

Python Programming: A Concise Introduction Wesleyan University

SQL (Basic) Certificate

Learn C++ by Creating

C++, Short and Sweet, Part 1

Python (Basic) Certificate

Crash Course on Python Google

C++ Tutorial for Complete Beginners

Cyber Security Course for Beginners - Level

The Kali OS Uses In Cyber Security

Ethical Hacking: The Complete Malware Analysis Process

Windows Privilege Escalation for Beginners

General Data Protection Regulation (GDPR) 1 Day Traning