HIDAYAT UR REHMAN
Senior Software Engineer | Cyber Security Analyst

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Work Experience

Senior Software engineer
Dec 2022 - Present

Avanza Solutions Pvt. Ltd.

As a Senior C++ Software Engineer at Avanza Solutions, I lead the development of complex software solutions, architecting and implementing high-quality applications. I am providing technical leadership, collaborate with cross-functional teams, and ensure 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 Bank of Pakistan
- Resident Engineer at U Microfinance Bank

Skills Tags

ATM Controller | Middleware Programming | Log Analysis | Customer satisfaction | Team Work | Customer Support | Customer Support | 1-Link | Transaction Routing | Transaction settlement | Socket Programming | Multithreading | Web APIs | Microsoft Service Programming | Open SSL | Certificate Installation | Server Management | Active directory | Pressure handling | Secure Coding | Collaboration with Various teams | Quick solution to a problem | Vendors Collaboration

Technologies

C Programming | Database | SVN | Oracle | Json | MSSQL | Rest Api | C++ | XML

Development Engineer
March 2022 - Dec 2022

Sedenius Technologies & Engineering GMBH

Sedenius Technology is an innovative technology company where I worked as a C++ developer. At Sedenius, we focused on developing cutting-edge software solutions using C++ to address complex challenges in various industries. As a C++ developer 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, ensuring our software applications were at the forefront of technological advancements.

- Completed one mega project for CARIAD – Automotive Software for Volkswagen
- Gain Master of Cmake Certification

Skills Tags

C++ 17 Programming | Object-Oriented Programming (OOP) | Memory Management | UDP | STL | Multithreading and Concurrency | Data Structures | Algorithm Design and Analysis | Operating System Concept | Compiler Knowledge | Debugging and Troubleshooting | Scrum | Software Design Patterns | Performance Optimization | Unit Testing and TDD | CMake Scripting | Agile | Network Programming | CI/CD | Decoding | Jenkins | Slack | VPNs | Code reviewing | Git | Centralize SDK Management | Encoding | CANFD | Flexray | CAN | GenSys | TCP/IP | Ethernet | Canoe | SOMEIP | ADMA | Veles | Redmine | Valgrind

Research Officer
Aug 2021 - March 2022

Shaheen Foundation Pakistan

As a SOC (Security Operations Center) analyst, I specialized in cybersecurity 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 a deep 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.

- SOC Analyst L1
- Python Scripting
- Tools Integration
- Honeypots Modification and Integration

Skills Tags

Cowrie and T-pot (Honeypot) · Python Scripting · Network Configuration · Surikata · Firewalls · QRADAR · SOC · IDS · Metasploit · SQL Map · WireShark · SQL Map · Burp · IPS · Ubuntu · Kali Linux · Malware hunting · Reverse Engineering · Malware Analysis · VM Ware · Cyber Threat Intelligence · TCP/IP

Freelancer

2020 - Present

C++& Python Software Developer

As a freelance C++ and python developer I provide expertise in C++ & python programming for various projects and clients. With a strong command of the language, I offer custom solutions tailored to clients' needs, whether it's developing efficient algorithms, optimizing code performance, or creating robust applications. I bring a deep understanding software development best practices to deliver high-quality C++ and python solutions. My goal is to contribute to clients' success by providing reliable, scalable, and efficient C++ and python programming services.

- CMake Scripting
- IOT Data encoding decoding
- MOCK testing
- Data Analysis
- Small Flask Projects
- Python Cyber Security Task
- Automation

Skills Tags

C++ Programming · OOP · Memory Management · Data Structures · Performance Optimization · Unit Testing & TDD · Algorithm Design and Analysis · Compiler Knowledge · SVN & Git · Multithreading and Concurrency · STL (Standard Template Library) · Operating System Concepts · Debugging and Troubleshooting · Network Programming · CMake Scripting · CLI Development · Python Programming · Error Handling and Exception Handling · Deep Learning · Machine Learning · Problem Solving and Algorithm Design · OS & Platform Awareness · Data Science

Education

Master of Cyber Security
2021 - Present

Air university Islamabad Pakistan

Course work completed
CGPA 3.47

Bachelor in Computer Science
2017 - 2021

Air university Islamabad Pakistan

Major in Cyber security and Data science
CGPA 3.01

Certifications in Programming

- Python Programming by Wesleyan University
- SQL (Basic) Certificate
- Beginning C++ Templates
- C++, Short and Sweet, Part 1
- Master CMake for Cross-Platform C++
- Python (Basic) Certificate
- Crash Course on Python Google
- C++ Tutorial for Complete Beginners

Certifications in Cyber Security

- Windows Privilege Escalation for Beginners
- Deep Web- The Complete Introduction
- EH The Complete Malware Analysis Process
- The Kali OS Uses In Cyber Security
- Cyber Security Course for Beginners - Level
- Stay Anonymous Darknet, TOR, WHONIX, Tails & kali

Trainings & Awards

- General Data Protection Regulation (GDPR) 1 Day Training from Sedenius Technology.
- ISO 27001 1 Day Training from Air University
- FREELANCING course under DigiSkills Training Program
- GRAPHIC DESIGN course under DigiSkills Training Program
- Pakistan Cyber Hackathon 2022 Secures 14th Position.
- Pakistan Cyber Hackathon 2021 Speed Programming Secure 8th Position.
- Best Logo Designer By Air University
- Best Poster Designer By Air University Nexus
- Best Poster Designer By NUST University EME
- Bridge Binder in Speed Programming
- Blood Donor At Pakistan Red Crescent Society

Research papers

- Anomaly Detection and Categorization in Internet of Things Frameworks Using Supervised ML
- A Deep Learning Model for Network Intrusion Detection with Imbalanced Data
- Recurrence of Cancer Prediction Using ML
- Smart Passive OS Fingerprinting using a single TCP SYN Packet
- DARK WEB DATA ACQUISITION AND ANALYSIS USING SELF RELIANT CRAWLER
- An Ensemble Learning Model for the detection of phishing attacks
- Network Intrusion Detection Model Based on Deep Learning Techniques
- Physical Fake signature detection using DL model

Languages
English (Read, Write, Speak) | Urdu (Read, Write, Speak) | Pushto (Speak) | Arabic (Read)

For Certificates and extensive information please visit
https://hidayatkhan013.github.io