Muhammad Usama

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Location: Rawalpindi

4 years of experience as a Software Developer in languages including C/C++, C#, Java and JavaScript. Web development experience in Java Spring, ASP.net and PHP. I mostly work on Windows and sometimes on Linux distributions. I am very good at debugging and like solving problems. Can relocate or remote.

Work Experience

Application Developer – Teradata

JAN 2018 - PRESENT

- CICD pipeline development
- POCs for various clients and projects.
- Deployment, configuration and integration of tools on Cloud on AWS and Linux.
- Docker, Jenkins, Icinga 2, ELK, Elasticsearch, Logstash, Kibana, ServiceNow

Python, Groovy, Java, NodeJS, C++, CPPUNIT

Software Engineer – Gorillabox

AUG 2015 - DEC 2017

Cloud Gaming platform - G-Loader

Increase the user base of a game by allowing users to play it before it's fully downloaded and installed. Increased the conversion rate by more than 30% leading to decrease in acquisition costs.

- Added new features, bug fixes and performance improvements in G-Loader video streamer.
- Integrated many games including The Elder Scrolls Online, World of Airplanes, Dragon Prophet.
- Integrated and support of Fiesta Online with G-Loader for release as the first game.
- Did lots of Reverse Engineering and DLL Injection, API Hooking, input hooking to add more games.
- Implemented H264, H265 Hardware Encoder for DirectX 9(Ex), DirectX 10 based games.
- Implemented Hardware Encoder in Google Chrome for WebRTC for in browser gaming.
- Added Multi-Streaming support as concurrent game instances on same machine.
- Wrote generic desktop-based streaming for easier faster integration of any game.
- Updates and fixes in Android client with JNI.
- Architecture design of backend web server.
- Java/Spring based Management Server to manage streams.
- Wrote analytics with activity logging to check conversions of thousands of users.
- Citrix XenServer, License Servers, VMs management and Git repo management.
- Trained and mentored new developers.

C/C++, C#, Java Spring, MySQL, Hibernate, Android, JNI, Win32, Windows API, AWS EC2 API, Windows Services, SDL2, CURL, H264 and H265 Hardware Encoders, WebRTC Native, FFmpeg, Nvidia NVENC, NvIFR, NvFBC, DirectX 9 and DirectX10, API Monitoring, API Hooking, DLL Injection, EasyHook, Live555, Citrix XenServer and XenCenter, Git

Research Associate – SEECS, NUST

DEC 2012 - JUN 2014

DSpace

- Delivered successfully for PASTIC and SEECS.
- Contributed back to its original open source repository by publishing bug fixes.

Java, JSP, JavaScript, Git, PostgreSQL.

Teaching Assistant - SNS, NUST

MAR 2013 - MAY 2013

- Teaching Assistant of bachelors' Computer Programming course for Java.

PHP Intern - SASD International, Lahore

FEB 2011 - APR 2011

- Created WordPress themes from provided HTML/CSS templates.

Core PHP, WordPress, Joomla.

Skills

- C/C++, Java, C# .Net, JavaScript, Python, PHP
- Spring Hibernate, Android, JNI, Windows API, Win32, Live555, DirectX9, DirectX10, SDL, SDL2, HTML5 Canvas, jQuery, Angular JS, DLL Injection, API Hooking, Git, WebRTC, Jenkins, Docker, AWS
- My SQL, MS SQL Server, MS Access, PostgreSQL, MS Visual Studio, NetBeans, Eclipse, Matlab

Projects:

Radiological Management System – [ASP.NET MVC5, **iQuery**, **AngularJS**] Web app to manage DICOM files (studies) in different hospital centers. Bulk file upload. Study review workflow. Reports generation.

Scientific Workflow System - [Java, Jade, Swing] Workflow automation and UI generation. Thesis POC.

ASA Film Crew - [JavaScript, PHP, PhoneGap, Puship] Create booking requests. Push notifications.

Energy Monitor NUST – [C#, MS SQL Server, MS Charts & Reports] Dashboard for power generators with stats, visualization. Reports. SMS communication.

Recipe Manager – [C#, **MS Access]** Keep record of sales and stock of recipes and their ingredients.

Cricket Score Board – [C# WinForms, MS SQL Server 2008] Live and offline cricket scores, team and player profiles from XML feeds. Graphical teams and players comparison, notes, schedules. FYP.

Hobby Projects:

Chip-8 Emulator - GitHub [JavaScript, Canvas] emulator to play chip-8 games and programs in browser.

Visualize Sorting Algorithms + Sound - GitHub [JavaScript, Canvas] sorting algorithms side by side.

Space Shooter Game - Play Store [GML, Game Maker Studio 2] a fun little space shooter game.

Procedural Trees - GitHub [JavaScript, Canvas] generate fractal-based trees from given seed.

FFmpeg Video Player - GitHub [C#, CLI, C++, WinForms] video stream player to mark frames.

Multi-Screen Mouse Snap - GitHub [C++, Win32] avoid accidental mouse movements between displays.

Column Reader - GitHub [C#, Win Forms] offline reading. No DB. Support more with DLLs. Bulk Download.

Opera Friendly Clock - Opera Addons [JavaScript, Opera extension API] speed dial extension for Opera.

Bulk Delete Delicious tags - Source Forge [JavaScript] to remove useless Del.icio.us tags.

Education

MSCS 2011 – 2015 NUST

BSCS 2005 – 2010 Virtual University of Pakistan

MS Thesis: "Multi Agent based Virtual Research Assistant for Scientific Workflows". Dr. Peter Bloodsworth

Certifications and achievements

- 1. Certified Professional Scrum Master Level I Nov 2018
- 2. Certified Teradata Database Associate Dec 2018
- 3. AWS Certified Cloud Practitioner Dec 2018
- 4. Oracle Certified Associate, Java SE 8 Programmer I Jan 2019
- 5. Certified Associate in Python Programming Jan 2019
- 6. Certified Blockchain Expert V2 Jan 2019
- 7. AWS Certified Developer Associate Feb 2019
- 8. AWS Certified Architect Associate Mar 2019

Hacktoberfest 2018 (GitHub, DigitalOcean, Twilio) participant

Personal Strengths and Interests

Blogging. Some open source stuff. Sketching and painting using pens, brushes or code. Video games. Explore how things work in detail. I work hard to solve problems and love doing experiments. Read IT news, including AI and robotics, science and some mathematics.