

Amjad Afzaal

Lecturer at CHEP

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Objective

Highly motivated professional with experience in developing and managing software applications. Proven record of successful design and implementation of software solutions to streamline processes and improve productivity. Highly skilled in C, C++ and Python. Adept at troubleshooting and debugging software applications to ensure optimal performance.

Achievements

- Working with crossover as a fresh graduate** Versata company model is very different than the usual software company model. First it is challenging to get hired even for an experienced resource as they took top 10% of the talent around the globe. So getting hired in versata right after my graduation was indeed a big achievement as you are competing with experienced talent around the whole world.
- Secondly company working model is so demanding and challenging that you need to keep improving and learning every time to stay there. I have been working with them since my graduation till 3 years with same manager. I consider this to be a great achievement as you are competing with the glob talent every time.
- Open Source Contribution** I have added the support of Freescale i.MX31PDK board in Yocto BSP layer for Freesclaes's ARM platforms.
- <https://github.com/Freescale/meta-fsl-arm/blob/64e94efb9ca247e854f73932c6f6353c1a8c6b1e/conf/machine/imx31pdk.conf>
- <https://github.com/Freescale/meta-fsl-arm/blob/b3fa3b35b9f706deadaacad9044b5cca397e6380/conf/machine/imx31pdk.conf>
- Soft Expo Winner** My final year project got first position in soft expo held at PUCIT in June 2013
Link: <http://aim.pucit.edu.pk/ndrr/>
- CGPA** 3.86/4.00 (Earn two gold medals [University and MUQIT Qureshi])
- Scholarship** Receive scholarship on yearly basis from PUCIT

Academic Credentials

- 2021 to 2026** **PHD in Computer Science**
SCHOOL NAME, PUCIT
CGPA: 4/4
- 2009 to 2013** **Bachelor in Computer Science**
SCHOOL NAME, PUCIT (Punjab University),
- 2007 to 2009** **Higher Secondary School Certificate**
SCHOOL NAME, Government College Lahore (GC),
Grade A+
- 2005 to 2007** **Secondary School Certificate**
SCHOOL NAME, The Trust School Aamir Town Lahore.
Grade A+

Skills

Deep Learning, Machine Learning, C, C++, Python, Bash Scripting, Docker / Containers, Kubernetes, Team player, Self-Driven and Independent Contributor

Work Experience	
Center of High Energy Physics Punjab University	<p>Currently working as role of lecturer.</p> <ul style="list-style-type: none"> Responsible for teaching computer core courses like Introduction to Computer Science, Computer Programming, Advance Computer Programming and Simulation Offered constructive feedback to students to increase test scores and promote understanding. Advised students on course selection, career paths, research opportunities. Facilitated discussions among students by posing thought-provoking questions related to course material. Fostered supportive learning environment, helping students develop advanced level and subject-specific skills. Provided timely feedback to students on their academic performance and progress.
Siemens Digital Industries Software	<p>Worked for 5 years as technical lead software developer engineer.</p> <ul style="list-style-type: none"> Primarily worked (developing and bug fixing) with Nucleus RTOS Middleware networking (TCP/IP, FTP, TFTP and many other application level protocol) and storage protocols. Ported OpenSSL, WolfSSL and WolfSSH into Nucleus RTOS Responsible for providing timely and quality solution to complex customer reported bugs. Responsible for developing and maintaining application (Scaptic framework based on Python) and unit testing (Kader framework base on C/C++) Experienced working with jenkins and automation.
Gteam Versata	<ul style="list-style-type: none"> Worked on Enterprise HRMS application name NuView as a java software developer + consultant. Responsible for end to end delivery of customization Customization involves client specific changes and modification to standard product. Responsible for end to end delivery of interfaces. Interfaces deal with flow of data (inward and outward) b/w third party vendor and NuView like 834 benefit interface, ADP interfaces etc etc. Responsible for end to end delivery of product upgrade for the clients. Upgrades deals with upgrading client from previous version to latest HRMS version. <p>Website link: http://www.nuviewinc.com/</p>
Mentor Graphics	<p>I worked there as an Internee for 6 months. I worked on developing demo application using Embedded Linux on an embedded hardware platform and added support of Freescale i.MX31PDK board in Yocto BSP layer for Freescales's ARM platforms. I also develop some basic device driver like parallel port, memory driver etc. for Linux</p>
Teacher Assistant	<p>I have been teacher assistance of Data structure and Algorithms, OOP, Mobile Computing, System Programing and Operating System subjects. I took the lab and polish the technical skills of students.</p>

Projects	
NuView	<p>This is an enterprise HRMS application. I am working as a professional consultant on this product. I deal end to end delivery of customization, interfaces and upgrade. Customization involves client specific changes and modification to standard product whereas interfaces deal with flow of data (inward and outward) b/w third party vendor and NuView like 834 benefit interface, ADP interfaces etc etc. Upgrades deals with upgrading client from previous version to latest HRMS version. I handled end to end delivery of these three areas.</p>
Tooling	<p>I worked on variety of different products and tool them. Tooling basically contains building application installer, nightly builds, compile and configure them in company environment. I also worked on configuring test environment and test automation for these products.</p>

National Digital Research Repository	This was my FYP. The idea is basically to provide Pakistani researchers a platform where they can see all other Pakistani researchers' work, interact with each other through our social media, share their work, rank each other etc. Our research repository not only houses all Pakistani researchers' paper and their work but also provide them a social media as well as standard ranking system.
Dominos knight 2	I recently build up a game name dominos knight 2 on android platform. I build it from the scratch no existing graphical frame work has been used for the development of this game. In this game you have a main character called dominos which has to get all the coins that appears on the screen without touching obstacles. If you touch the obstacle then your life decreases one point. Next level automatically begins after user successfully gets all the coins that appear on the screen.
Document Comparer	It compares two documents and tell semantically whether they are same or not, whether they have positive or negative tone, automatically extract title of a document and also tell number of sentences in a document. Written using java.
Study and Adding system call to Linux Kernel	First study the Linux Kernel and debug it using eclipse See how Linux Kernel works. And then adds a basic system call to Linux kernel, compile and run and test it.
Tic Tac Tao	A multiplayer networking game developed using java and C/C++ for Panda board, imx31pdk and all other ARM architecture.
Online Testing System	It is totally web base system. We provide it paper and its answer (MCQ's only) then it will produce the result of solved scanned Paper by student. It is much like NTS marking system only the difference is that it is web based. It also provide a feature of automatically create paper from its data base. JSP, JavaScript, CSS and Web Safier were used.
Event Management System	Developed an advance featured event management system. It deals with almost every kind of organizing events with all latest needs and desires. Written in C++.
Digital Diary	Full advance featured digital diary written in VB.Net
Link To All My Code	https://github.com/Amjad-Afzaal/PUCIT-Projects.git

Languages
English, Urdu, Punjabi