Muhammad Aqeel Afzal

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ABOUT ME

A **Software Engineer** with a demonstrated history of exceeding expectations, leveraging over 2 years of hands-on and professional experience in crafting cutting-edge solutions within the software industry. Proficient in developing robust and scalable applications, I have consistently delivered innovative solutions that have significantly contributed to the success of projects.

EDUCATION AND TRAINING

15/08/2019 – 15/06/2023 Islamabad Gpo, Pakistan
BACHELOR IN COMPUTER SCIENCE (BS-CS) National University of Computer and Emerging Sciences (NUCES)

Website http://isb.nu.edu.pk/

WORK EXPERIENCE

11/11/2024 – CURRENT Islamabad Gpo, Pakistan
SOFTWARE ENGINEER NATIONAL AEROSPACE SCIENCE & TECHNOLOGY PARK (NASTP)

02/10/2023 – 31/10/2024 Islamabad Gpo, Pakistan
SOFTWARE ENGINEER DISCRETELOGIX

DIGITAL SKILLS

C/C++ | Java | SpringBoot | Python | Node.js | Java Spring + Hibernate (Basic) | JUCE Framework | Angular | CSS | HTML | JavaScript | Git/Github | SQL | Web services and RESTful APIs | MongoDB | MySQL | AWS, AWS Lambda | Audio Signals Processing | Atlassian (Bitbucket, Confluence, Jira)

PROJECTS

DX DELAY (Audio VST3 Plugin)

- **DX DELAY** is an audio processing VST plugin for performing different audio effects on live/recorded audio signals.
- Developed JUICE C++ framework for musicians.
- Working as a Full Stack using Advance C++.

DX Drum (Audio Synth/VST Plugin)

- **DX Drum** is an audio processing Synth/VST plugin is a drum machine for playing back different audio samples as midi input.
- Developed in JUICE C++ framework for musicians.
- Working as a Full Stack using Advance C++.

PKG Health Development

- Spearheaded the development of the Parkinson's KinetiGraph® (PKG®) in collaboration with neurologists from the prestigious Florey Institute of Neuroscience in Melbourne, Australia.
- Worked as Full Stack using Java and Spring Boot framework, Angular.js, leveraging JPA for efficient data persistence in projects like PKG Health Management Portal.
- Demonstrated proficiency in AWS, including deployment strategies and creating AWS Lambda functions in Python for efficient serverless computing.
- Designed and managed complex data models using MySQL databases.
- Utilized Jira, Bitbucket, and Jenkins for project management, version control, and continuous integration, ensuring streamlined development processes and efficient project delivery

Link https://eu.pkgonline.com/#/auth/login

Test Preparation for Doctors

- **Test Preparation for Doctors** is a web application for doctors to customize medical books.
- Worked as front-end developer using Angular.js

Bee Mobile (Explore AI)

- **Bee Mobile** provides convenient vehicle hives at partner locations putting wheels where riders need them most.
- Worked as backend developer using Node.js and Mongo DB

Link https://bee-mobile.co/

PERSONAL PROJECTS

Web Software Product Line Automated Testing(Final Year Project)

- Developed a Web Application which takes an existing Junit test suite of the base variant as input and make it compatible with the new variant of the Web Software Product Line by reusing and repairing the XPath and structural issues so that the testing effort can be reduced.
- Worked as backend developer Java, Spring Boot Python, TestNG, Eclipse, VS Code, and Selenium.

Link https://github.com/M-Aqeel-Afzal/F22-033-D-WebSPLAT

Kameti Management System

- ·A command line application implemented using Java and Hibernate.

Link https://github.com/M-Aqeel-Afzal/KametiManagementSystem

Electronic Voting Machine (EVM)

- A Desktop application implemented using Java, SQL, and Java FX concepts.
- Tested using Junit Testing and deployed using DevOps and Jenkins pipeline.

Link https://github.com/M-Aqeel-Afzal/Electronic-Voting-Machine

Account Management System

- A command line application implemented using Java, SQL/MySQL, and Hibernate.

Link https://github.com/M-Aqeel-Afzal/Account-Management-System

Flight Management System

- A command line application implemented using Java, SQL/MySQL, and Hibernate.

Link https://github.com/M-Aqeel-Afzal/Flight-Reservation-System

LANGUAGE SKILLS

Mother tongue(s):   **URDU**

Other language(s):   **ENGLISH**