AMENA SYED

Biomedical Engineering at University of Waterloo

amenasyed.github.io
amena.syed@uwaterloo.ca
amenasyed
amenasyed

WORK EXPERIENCE

Software Developer | Canon
SEPT 2022 - DEC 2022

Identified and resolved bugs in the upcoming Vitrea Connection release, handling 700,000,000+ medical image records annually

Optimized build scripts for **Gradle** supported in **Java** to generate more efficient unit test reports by removing redundant tests, reducing build time by 15% for over 500 tests

Led the creation of a **KPI** report to assess codebase unit test coverage, producing an overall coverage of 78% in compliance with **QMS**

QA Tester | University Health Network
JAN 2022 - APR 2022

Identified and resolved **50+ bugs** in iOS, Android and web versions of medical software, for 4 major product releases

Performed verification & validation, installation and feature testing in accordance to **ISO 13485**, yielding a test effectiveness of 92%

Product Developer Intern | Connexa.ai
JUL 2021 - FEB 2022

Leveraged primary research to design mockups for API integrated features, to increase user activity through intuitive user interfaces

Drafted and conducted UX surveys for 50 beta users, identifying a customer satisfaction score of 83% before product launch

PROJECTS

mood FM | Hack the North 2022
SEPT 2022

Utilized **React** and **Python** to create a personalized music listening experience for users through speech recognition technology

Employed **AWS** Transcribe API and Cohere **NLP** APIs for speech to mood classification, yielding a 94% language model accuracy

deciSense | Design Project
JULY 2022

Developed a voltage-to-dB function to replace built-in mapping, increasing the device's sound level confidence by over 35%

Spearheaded the extraction and analysis of raw **Arduino** data in **Python**, generating analytics to notify user of immediate and long-term noise exposures

DEVELOPMENT

Java

C#

C++

Python

HTML/CSS

Javascript (React)

TOOLS

Jira, Confluence, Bitbucket

VS Code, IntelliJ

Jenkins, Gradle

HL7/DICOM

Git

Figma

Solidworks, AutoCAD

CERTIFICATIONS

2022 Web Development
Udemy - Issued April 2022

Research Ethics
TCPS Core 2 - Issued Jan 2021

EDUCATION

Candidate for BASc in Biomedical Engineering
University of Waterloo
cGPA: 3.93/4
09/2020 - 05/2025

OTHER ROLES

Frontend Web Developer
Ma'rifa Programs Inc.

Youth Lead + Social Media Manager
Al Zahra Shia Association of KW