AMENA SYED

Biomedical Engineering at University of Waterloo

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WORK EXPERIENCE

Software Developer | Canon
SEPT 2022 – PRESENT

Currently developing backend infrastructure of medical systems

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

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

Developed a web application, leveraging **React** and **Python**, that listens and interprets speech to play music suited to the nuanced mood of the conversation and track emotion trends

deciSense | Design Project
JULY 2022

Developed a voltage–to–dB function to replace built–in mapping, increasing the device's **sound level precision 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

CEMCOD Website | Engineers Without Borders
FEB 2022 – APR 2022

Redesigned CEMCOD's website using **HTML/CSS** in **Wordpress** , streamlining access to digital media for 250+ members in Uganda

DEVELOPMENT

Java

C#

C++

Python

HTML/CSS

Javascript (React.js)

TOOLS

Figma

Jira, Confluence

Agile

Git

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
09/2020 – 05/2025

OTHER ROLES

Engineering Committee Director
ABSA Network

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