

# AMENA SYED

Biomedical Engineering at University of Waterloo



amenasyed.github.io



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amenasyed



amenasyed

## WORK EXPERIENCE

**Software Developer** | Canon Medical

SEPT 2022 – DEC 2022

Identified and resolved bugs in the upcoming Vitrea Connection release, using **Git** and **Bitbucket** for version control and code review

Improved build scripts for **Gradle** to generate more efficient unit test reports by removing redundant tests, reducing build time by 20% 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 92% 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

Engineering Committee Director

ABSA Network

Youth Lead + Social Media Manager

Al Zahra Shia Association of KW