

# Zaiyan Azeem

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## EDUCATION

### Western University

*Bachelor of Engineering Science, Software Engineering*

London, ON

*Sep. 2020 – Present*

## TECHNICAL SKILLS

**Tools:** Firebase, NodeJS, Flutter, Arduino, SQL, AWS, Unix, Git, Jira/Confluence, Adobe Ps/Ae/XD/Ai/Pr

**Languages:** Java/Kotlin, JavaScript, Python, C/C++, C#, Dart

## PROJECTS

### Music Archive Web-app | *HTML, CSS, Javascript, AWS, NodeJS, React*

2022

- Deployed the website on Amazon EC2 AWS, maximizing scalability and reliability for smooth operation and user access to music metadata API.
- Implemented a REST API for accessing music metadata from a song archive using Node.js and Express
- Developed a simple front-end using pure HTML/CSS/JavaScript to interact with the API
- Integrated given CSV files containing artists, albums, tracks, and genres to populate the music archive
- Utilized asynchronous operations to show both static and dynamic data on the front-end
- Created input sanitization techniques to ensure data integrity and security

### Fantasy RPG | *Unity, C#, Git*

2022

- Created a 3D adventure game utilizing Unity and C#, following an iterative software development life cycle model
- Utilized software development practices, including unit testing, continuous integration, and collective code ownership to deliver high-quality and bug-free code
- Implemented OOP principles such as Inheritance, Overloading, Overriding, and Singleton in the game code to improve code structure and organization
- Performed interoperability testing to ensure game compatibility across multiple operating systems and resolved any identified bugs

### ‘You-First’ App | *Android Studio, Kotlin, Dart, Java, Firebase*

2021

- Developed an Android app as a part of hackathon project Hack the North with a user-friendly interface, which aimed to promote mental well-being and self-care through easy access to meditation, positive quotes and wholesome memes
- Backend communicated with the Firebase API's to send daily push notifications
- Utilized Java and Firebase to build the app, which included features such as meditation, positive quotes, and wholesome memes.

### ‘Split’ App | *Android Studio, Java, SQL, Courier, Figma, Adobe Ai/Ps*

2021

- Created automated financial spend-and-split tracker app for TOHacks
- Designed entire UI, logo and developed push notifications
- ‘Split’ allows users to create/join a plan for a service of their choosing. Users joining a plan pay part of the total cost of the service hosted

### ‘Collab.’ Repository Web-app | *React, HTML, CSS, JavaScript, Git, Firebase, Adobe Ae/Ai/Ps*

2021

- Developed repository web-app for Hack Western to aid with open source learning
- ‘Collab.’ allows users to share/upload content onto a database, where it can be accessed by other registered users for their personal learning using Google Firebase Authentication
- Designed website UI/UX design and interactions

### Cat food Dispenser | *Arduino*

2020

- Engineered a food dispenser using a breadboard and servos attached to a can to give my cat food at specified times while I was out of town for a prolonged duration

### Laser Turret | *Arduino, C#, Visual Studio*

2020

- Inspired by robotic ureteroscopy, I assembled a laser turret controlled by a Microsoft Xbox 360 controller using an x/y axis pad displayed using specific parameters

### Password Generator | *NodeJS, HTML, CSS, and GitHub Pages*

2020

- Designed and implemented a password generator featuring a user-friendly interface
- Utilized the NodeJS crypto module to generate random passwords according to user-specified criteria