San Francisco California Fullstack Developer

https://soundware.io/toufiksapps@gmail.com

# **Professional Experience**

## Soundware Inc

San Francisco, CA

Flutter & JUCE Developer

May 2021 - Present

- Developed Octane and Sylo JUCE plugins, with Octane as an instrument plugin and Sylo as a loops plugin
- Implemented complete UI in JUCE C++ for both plugins, shipping them across multiple DAWs like Fruity Loops and Garage Band
- Integrated Rubber Band library for time-stretching MIDI notes
- Contributed to over a million in gross income by selling Octane and Sylo at \$15 each
- Developed Bump, a beat maker app with low latency using Flutter
- Created a Flutter module to replace the JUCE UI and implemented a Dart:ffi library to enable communication between JUCE's C++ layer and Flutter's Dart layer with NDK support on Android
- Bump app available at: https://apps.apple.com/us/app/bump-drumpad-beat-making-app/id1588567902

#### Discord Inc

San Francisco, CA

Android & iOS Developer

May 2020 - Feb 2021

- Worked on the Discord communities team with 5 React Native developers as the sole Android developer
- Mirrored the store implementation from React Native to Android, maintaining the same store concept through dependency injection
- Implemented reactive components using MVVM architecture in the Android app
- Shipped server guidelines feature for new members to fill a survey and adhere to community guidelines when joining a server
- Utilized Dagger for dependency injection to manage app components
- Developed and executed unit tests to ensure code quality and reliability
- Implemented Espresso tests for UI testing to ensure a seamless user experience

#### Facebook Inc (Meta)

Menlo Park, CA

Android & iOS Developer

January 2018 - May 2020

- Worked on the videos team, shipping a video carousel feature for Pages on the Facebook appusing React Native & GraphQL
- Implemented a dedicated Stories page for FBLite using HACK and GraphQL, leading to a 10% increase in stories viewed from almost 1 billion users
- Created multiple A/B testing variations for stories dedicated spaces and utilized internal experimentation tools to analyze data
- Delivered the final best variant to ship for stories dedicated space without affecting core metrics such as ads
- Utilized HACK/GraphQL to render UI from the server side for various features on FBLite

Udemy San Francisco, CA

Android & iOS Developer

March 2017 - December 2017

- Collaborated with 2 other Android developers on the Udemy mobile app
- Implemented and shipped upgrades to ExoPlayer for the course feature

# Crunchyroll INC

San Francisco, CA

Android & iOS Developer

December 2014 - February 2017

- Implemented the VRV video streaming app from prototype to release in a team of 3 developers
- REST API implementation using JSONModel and RFNetworking for iOS, and Retrofit for Android
- Video streaming implementation for HLS video playback
- Handling subscription and authentication of premium and non premium users on Android
- Implement the chromecast receiver web app for casting videos from iOS and Android devices

## Twitter INC

San Francisco, CA

Android Developer

March 2014 - November 2014

- Led a project to ship features targeting emerging markets, focusing on acquiring users in India
- Implemented a search takeover feature to display live cricket World Cup results, contributing to timely shipping and valuable data learnings
- Worked closely with 2 other Android developers, coordinating efforts from start to finish
- Implemented the signed-out feature for the Twitter Android app, allowing guest access to features such as search, profiles, and tweet details
- Collected and analyzed Scribe analytics data for each experiment released
- Reported the success or failure of experiments to the Product Manager after data analysis
- Implemented unit testing using Scala to ensure code quality and reliability

**Kobo INC** Toronto, ON

Android Tablet Apps Developer

May 2012 - November 2013

- Worked on implementing a custom Android Launcher for three devices: Kobo Arc 7", Arc 7" HD and Arc 10" HD from prototype to release, including Google certification
- Worked on the Kobo Arc with a team of 4+ developers/UX designers to deliver an innovative tablet/eReader from prototype to release, including the Google certification of the Arc

# Side Projects

GetStems Web Project Jan. 2024

Co-Founder & Developer

- Implement first ever stem separator that splits YouTube songs from prototype to release
- Implement SaaS API that allows subscribers to convert any audio to stems
- Front-end architecture used is React, Tailwind
- Back-end architecture used is Typescript, Python for AI inference of stem splitters
- Services used include Firebase, Google Cloud, Digital Ocean, RedisLabs
- Implement docker-compose to deploy all services at once

Available here https://getstems.ai

Tize

iOS & Flutter Project Co-Founder & Developer August. 2015

- Developed a first of its kind Beatmaker app on iOS that allowed any level music producer to make music with a unique approach to building layers note patterns using music theory

- Implemented in app purchasing with multiple sound banks
- Implemented the backend on Dart, which runs with RethinkDB
- Android version runs with Flutter SDK

Available on the App Store https://itunes.apple.com/us/app/tize/id1130726632?mt=8

# Consulting Experience

**Cymatics** San Francisco, CA

Audio Plugin Development

March 2024

- Developed audio plugins including Corrosion, a tonal noise enhancer.
- Product available at: https://cymatics.fm/products/corrosion-tonal-noise-enhancer

## Lemonaide Music

San Francisco, CA

Cloud VST Development

Jan 2024

- Developed cloud-based Virtual Studio Technology solutions for audio production
- Deployed backend in Google Cloud Platform (GCP) and utilized Windows Server for MIDI to WAV conversion
- Implemented backend using Uvicorn with Python for efficient and scalable performance

theGoodApi Toronto, ON

E-Commerce Development

Nov 2023

- Implemented integration of the Good Api platform with online stores including Shopify, BigCommerce, and Duda using React

## **Education**

# University of Waterloo

Waterloo, ON

Master of Applied Science in Electrical & Computer Engineering

2009 - 2011

- Relevant Courses: Data Structures and Algorithms, Foundations of Software Engineering, Computer and Network Security.

# American University in Dubai

Dubai, UAE

Bachelor of Science in Computer Engineering

2004 - 2009

- Relevant Courses: Computer Architecture, Operating Systems, Open Source & Enterprise Computing with Java