



# Sal Hasan

## Software Engineer

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I'm a driven software engineer with a passion for problem-solving, optimization techniques and accessibility. You can rely on me to find a solution to any problem thrown my way. I'm naturally curious about all sort of tech. I do CTFs on the side.

## WORK EXPERIENCE

### Software Engineer MEDNMIND

11/2023 - Present

MEDNMIND is a specialized healthcare tech company combining biomedical signal processing with software development to create innovative solutions.

#### Achievements/Tasks

- Accelerated website performance by 50x, reducing load time from 5 minutes to 6 seconds by migrating from legacy CRA to Vite + Typescript, optimizing image assets, and enhancing SEO
- Mentored 5 interns in frontend development, accelerating their proficiency in React and Git through structured training, resulting in successful production code contributions
- Designed and built an appointment management web app for mental health professionals using React and TypeScript
- Developed a patient-centric mobile healthcare platform using React Native and Expo
- Engineered a secure healthcare API using Supabase and PostgreSQL

## PERSONAL PROJECTS

### Desmos Offline Mode (08/2020 - Present)

- Developed a Desktop port of Desmos Graphing Calculator Web App using Electron and Vite.js
- Implemented automated CI/CD pipeline using AppVeyor

### Maternal and Fetal ECG Analysis for Early Detection of Fetal Distress (07/2023 - 10/2023)

- Constructed fetal ECG extraction system by using SciPy and advanced signal processing algorithms, achieving separation of fetal heartbeat signals from maternal ECG data
- Implemented a Convolutional Neural Network (CNN) via PyTorch utilizing Gramian Angular Field (GAF) as ECG input representation for better arrhythmia detection

## EDUCATION

### Computer and Communication Networks Engineering

Lebanese University - Faculty of Technology

10/2020 - 10/2023

## SKILLS

HTML CSS LESS Tailwind JavaScript

TypeScript React React Native Expo

Electron Node.js Express Hono

PostgreSQL MongoDB Supabase Git

GitHub BitBucket CI/CD AppVeyor

Vercel Python C Rust Basic Flutter

Linux Data Structures

## CERTIFICATES

### TECHlarious Full Stack Boot-camp (01/2023 - 03/2023)

Successfully completed a rigorous full-stack development bootcamp, gaining proficiency in both front-end and back-end technologies,

### WiCode Data Science (02/2021 - 02/2021)

Partook in a comprehensive Python workshop with hands-on learning and practical skills in Python programming.

## LANGUAGES

Arabic  
Native or Bilingual Proficiency

English  
Native or Bilingual Proficiency

## INTERESTS

Low Level Programming

Compilers

Cats

Outer Wilds

Linux Kernel Development