

IBRAHIM EL KHANSA

+961 3 299 973 ◊ Beirut, Lebanon ◊ me@ibrahimelkhansa.com

ibrahimelkhansa.com ◊ linkedin.com/in/ibrahimelkhansa ◊ github.com/Tbrahim-ElKhansa

SKILLS

Languages:	English (Fluent), Arabic (Native)
Core Programming Skills:	JavaScript, TypeScript, SCSS, Python
Frontend/Backend:	React, Next.js, Node.js, Flask
Infrastructures:	Docker, Supabase, Firebase, MongoDB

EDUCATION

American University of Beirut (AUB)	Beirut, Lebanon
BE in Computer Science Engineering & Minor in Economics	Sep 2020 - May 2025

WORK EXPERIENCE

AUB Research Lab	Beirut, Lebanon
<i>Part Time Research Assistant</i>	June 2025 - August 2025
<ul style="list-style-type: none">Conducted computational musicology research focusing on Arabic music theory, collaborating with faculty and researchers to analyze and visualize complex musical concepts including tuning systems, maqamat, ajnas, and their transpositions and modulationsLed full-stack development using React, Next.js, and TypeScript to create interactive educational tools and real-time audio synthesis for maqām systems within the Music Intelligence Lab framework	
Murex	Beirut, Lebanon
<i>Java Software Development Intern</i>	June 2024 - August 2024
<ul style="list-style-type: none">Enhanced the MX3 platform’s Business Process Management module by developing UI components using Java Swing, enabling financial users to add editable descriptions and task comments, which reduced workflow errors and improved operational clarity for major financial institutions worldwideRefactored backend systems and database integrations to support new BPM features while maintaining compatibility, and built comprehensive integration tests using Jenkins, Maven, Git, and proprietary QA frameworks to ensure software stabilityDelivered scalable solutions through Agile development practices, collaborating with QA engineers, product managers, and architects in daily stand-ups and retrospectives to align technical implementation with user requirements	
Fits Consulting	Beirut, Lebanon
<i>Digital Transformation Consultant Intern</i>	August 2022 - November 2022
<ul style="list-style-type: none">Analyzed client business processes and developed automated workflow solutions using Bizagi and Java, creating admin portals and process models that streamlined operations for multiple client organizationsParticipated in client meetings and requirements gathering sessions to translate business needs into technical specifications for digital transformation initiativesCreated comprehensive process documentation and flow charts that served as implementation guides for clients transitioning from manual to automated systems	

PROJECTS

Coursis (Link) - A platform that helps students efficiently generate optimal university schedules based on dynamic algorithms, custom data structures, and user preferences, now serving over 15,000 users. <i>Next.js, React, Firebase, advanced algorithms, and advanced data structures</i>
H.A.D.I (Link) - A machine learning-powered platform that predicts diseases based on user-reported symptoms. <i>Python (Flask), TensorFlow, Jupyter Notebook, Docker, React, Next.js, and TypeScript</i>
Portfolime (Link) - A modern web application that transforms CVs into customizable portfolio websites. <i>Next.js, TypeScript, SCSS, Firebase, OpenAI API for resume parsing, and PDF processing libraries</i>
MusicLeb (Link) - A virtual hub for the Lebanese music scene that connects musicians, artists, and fans with a focus on performance optimization and community building, now with over 150 registered artists. <i>Next.js (CSR, SSR, SSG, ISR), React, TypeScript, and Firebase</i>
Maqam Network (Link) - An educational platform for exploring Arabic music theory, featuring maqamat, ajnas, seyr, tuning systems, and interactive visualizations with dynamic audio playback. <i>Next.js, React, TypeScript, audio synthesis libraries, and advanced algorithms</i>