

**Ibrahim El Khansa**  
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## DESCRIPTION

I've been a full-stack software engineer since 2022, focused on building practical solutions that solve real-world problems and address gaps in the market. I graduated from the American University of Beirut in May 2025 with a degree in Computer Science Engineering and a minor in Economics. Ever since I learnt to develop web apps in my second year of college, I have been working independently on projects that merge technical expertise with innovative thinking to create value for users and communities.

## EDUCATION

**09/2020 – 05/2025 American University of Beirut (AUB)**  
Bachelor of Engineering in Computer Science Engineering & Minor in Economics

## WORK EXPERIENCE

**06/2025 – Present American University of Beirut - Part Time Research Assistant**  
Beirut, Lebanon Contributing to research and building interactive tools for exploring Arabic music theory concepts using React, Next.js, and APIs.

**06/2024 – 08/2024 Murex - Java Software Development Intern**  
Beirut, Lebanon Designed and implemented new Java UI components and refactored backend systems for MX3's BPM module, while supporting CI/CD pipelines in an Agile team.

**08/2022 – 11/2022 Fits Consulting - Digital Transformation Consultant Intern**  
Beirut, Lebanon Optimized client workflows using Bizagi, Java, building admin portals and automation tools. Delivered solutions that improved operational efficiency and client satisfaction.

## INDEPENDENT DEVELOPMENT PORTFOLIO

**02/2025 - Present Maqam Network – Interactive Platform for Arabic Music Theory**  
*Next.js, React, TypeScript, Web APIs, Audio synthesis libraries, Advanced algorithms*

**01/2025 - Present MusicLeb – Hub for Everything Music Lebanon ([www.musicleb.com](http://www.musicleb.com))**  
*Next.js, React, TypeScript, Authentication, Encryption, CSR, SSR, SSG, ISR*

**10/2024 - 12/2024 H.A.D.I – AI-Powered Symptom Checker ([hadi-online-doctor](http://hadi-online-doctor))**  
*Python (Flask), TensorFlow, Jupyter Notebook, API, Docker, React, Next.js, TypeScript*

**11/2022 – 09/2024 Coursis – Advanced University Scheduling Tool ([www.coursis.org](http://www.coursis.org))**  
*Advanced Algorithms, Advanced Data Structures, Next.js, React, API routes, Firebase*

**01/2023 - 06/2023 3azaw2ak - Mobile Food App**  
*React Native, Expo, Firebase, Cloud Functions, Realtime Database, Authentication*

## RELEVANT UNIVERSITY COURSE PROJECTS

Final Year Project (EECE 501/502)	<b>Gesture-Based MIDI Controller Glove:</b> <i>Python, Tkinter, ESP32, AI</i>
Database Systems (EECE 433)	<b>Farm Management System:</b> <i>Flask, PostgreSQL</i>
Software Engineering (EECE 430)	<b>E-commerce Dealership for Cars:</b> <i>React, Node.js, MongoDB</i>
Application Lab (EECE 430L)	<b>Exchange Rate System:</b> <i>React, Python, Flask, JavaFX, Kotlin</i>
Software Architecture (EECE 437)	<b>Instagram to E-commerce Website:</b> <i>React, Node.js, Docker</i>

## RELEVANT COURSEWORK

Design and Analysis of Algorithms, Object-Oriented and Effective Java Programming, Computing Networks and Services, Theory of Computation, Programming Language Design and Implementation, Cryptography and Network Security, Software Engineering, Database Systems, Software Architecture and Design Fundamentals, Web, Mobile, and Application Development Lab, Machine Learning, Computer Organization, Operating Systems

## SKILLS

**Languages:** Fluent in English, Arabic and German

**Tech Skills:** Java, Maven, Jenkins, JavaScript, Typescript, HTML, CSS, React, React Native, Next.js, Node.js, Flask, REST API, CI/CD Pipelines, Docker, Git, Firebase, MongoDB, PostgreSQL, SQL, Python

**Soft Skills:** Management, Research, Leadership, Adaptability, Time Management, Teamwork, Organization