

Samer Keyrouz

Software Engineer with a focus on building reliable backend systems and a drive for purposeful work. I approach problems with structure, persistence, and a strong sense of responsibility. Guided by precision, long-term thinking, and continuous learning, I aim to create systems that have lasting technical and human impact.

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EDUCATION

Master's in Computer Science
American University of Beirut
(Expected 2026)

MI in Computer Science
Lebanese University (2024)

BS in Computer Science
Lebanese University (2023)

Life Science Baccalaureate
Collège Notre Dame des
Soeurs Antonines Jamhour
(2020)

TECHNICAL SKILLS

- Programming Languages:** C, Pro*C, C++, Java, Python, PL/SQL, PHP, JavaScript
- Frameworks & Tools:** Django, Angular, Oracle APEX, Android SDK, Streamlit
- Databases & Backend:** Oracle, MySQL, REST APIs
- Machine Learning & Information Retrieval:** Transformers, Neural Networks, Search & Retrieval Systems.
- Industry Knowledge:** Data Structures, Operating Systems, Computer Architecture, Networking
- Productivity Tools:** Git, SVN, Redmine, Microsoft Office Suite.

PERSONAL SKILLS

- Leadership skills
- Time Management skills
- Communication skills
- Team Work skills

LANGUAGES

- Arabic (Native)
- French (Fluent)
- English (Fluent)
- Italian (Beginner)

WORK EXPERIENCE

Software Developer 2025 - current
Junior Software Developer 2023 - 2025
MDSL – ITG Holding Beirut

- Developed and maintained software solutions in C language for managing card transaction processing across ATM, POS networks and internet banking.
- Built and optimized PL/SQL packages for transaction settlement, reconciliation, and scheduled background jobs, ensuring efficient backend processes.
- Provide direct support for a major client in Egypt, independently handling all aspects of one of our core products.
- Conduct business trips to Egypt for on-site deployment, testing, and production support.
- Handled and resolved production incidents and client-reported issues via Redmine.
- Assisted in the development of REST APIs for a core system using Java Spring Boot

Oracle Apex Developer (Internship) May 2023 - October 2023
Astrolabe ICT Beirut

- Assisted in the development of a web application and modernized legacy systems by migrating Oracle Forms to Oracle Apex, following Agile methodologies.
- Utilized PL/SQL, SQL, and JavaScript to deliver high performing solutions aligned with industry standards.

Money Assessment Volunteer September 2021 - October 2021
Medair Cash and Voucher Assistance Department Beirut

- Conducted comprehensive financial assessments and analyses to support decision-making.

PROJECTS

Oud Music Generation and Improvisation Using a Transformer model
Developed a transformer model to generate Oud music within maqam scales.

Cross-Language Information Retrieval Using Lexical and Semantic Models
Implemented and evaluated BM25, LaBSE, and hybrid retrieval systems for English – Russian search tasks.

Uber-Like application
Developed an Uber-like android app with a PHP backend database and an admin management website.

Beneficiary Management Application
Built a web application for managing beneficiaries with a Django backend and Angular frontend.

CERTIFICATES

- Agentic AI - DeepLearning.AI - 2026
- Oracle APEX Cloud Developer Certified Professional - 2023