Khalil Dabbah

Information Systems Student
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SUMMARY

Computer Information Systems student specializing in software development using modern technology stacks and real-world engineering practices, focused on contributing to real-world systems and teams.
Applied algorithms, data structures, and system design principles across real projects, translating academic concepts into production-ready solutions.
Hands-on experience building production-ready projects across full-stack, AI, and data-driven systems, prepared to contribute skills and knowledgetoward real-world technology solutions.

PROJECTS & PRACTICAL EXPERIENCE

AI Newsletter SaaS Platform – Next.js, TypeScript, MongoDB,Clerk, OpenAI. (October 2025)
Production-ready AI SaaS automating newsletter creation from RSS feeds with AI-generated content.
Built as a scalable full-stack system for real users with subscriptions and performance optimization.

- Multi-provider authentication and subscription billing using Clerk
- Streaming AI newsletter generation for fast, interactive content
- Shared RSS pipeline with deduplication and caching (~40% storage reduction)

Local OCR Data Extractor for Accounting Firms – Tesseract.js, Google Vision, Ollama, Firebase (december 2025)
(Privacy-first system for extracting structured financial data from invoices using local OCR and AI processing.
Designed to protect sensitive client information by avoiding external LLM data sharing

- Privacy-first OCR pipeline using Tesseract.js (local OCR), Google Vision API, and Ollama (local LLM)
- Structured invoice data extraction (VAT, totals, dates, company IDs) using AI-based parsing
- Serverless backend with Firebase Functions, Firestore, and Storage

Movie Recommendation Engine - Python, Pandas, Scikit-learn, TF-IDF (June 2025)
Content-based recommendation system built on textual features using TF-IDF and similarity scoring.
Designed to handle large-scale datasets with reproducible ML workflows and evaluation.

- TF-IDF-based recommendation system with cosine similarity, delivering ~85% accuracy
- End-to-end ML data pipeline on a 1.2M+ movie dataset using Python, Pandas, and Scikit-learn

EDUCATION

B.Sc. in Computer Information Systems | University of Haifa (October 2023 - present)
Relevant Coursework: OOP (92), Data Structures (89), Algorithms (89), Operating Systems, HCI
DB Management (91), Computer Networks, Web Application Developing (92).

PROGRAMMING LANGUAGES AND FRAMEWORKS

Proficient with:Java, Python, C, SQL
Familiar with: JavaScript, TypeScript,Next.Js, Php, HTML, CSS.
Tools: Cursor, GitHub, IntelliJ, MySQL, MongoDB, React, REST APIs

SOCIAL ACTIVITIES

- **2024-2025 Hasoub Pairs mentee:** gained mentorship from experienced software engineers on interviews prep, job search, and career growth through the program, which included tech company visits and community events.
- Attended major tech events, company tours, and hands-on workshops hosted by leading tech firms, gaining real-world insight into innovation, teamwork, and emerging technologies.

LANGUAGES:

· Arabic - Native · Hebrew - Highly Proficient · English - Highly Proficient