

# ISSA NOUH

Beirut, Lebanon

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🌐 github.com/Issa-Nouh

## Education

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**American University of Beirut (AUB)**  
*B.S. in Computer Science*

**Jun 2021 – Exp. Dec 2025**

*GPA: 3.0/4.0*

## Experience

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**American University of Beirut**

**2023 – 2024**

*AI Chatbot Design & Development*

- Researched, designed, and tested an AI chatbot tailored for AUB.
- Implemented Retrieval-Augmented Generation (RAG) for precise answers from a university knowledge base.

**Independent Contractor — Be Clever For Educational Services**

**2025 – Present**

*AI Engineer*

- Engineered a full AI-driven career counseling pipeline from JSON schema design and FastAPI endpoints to MongoDB integration, HTML generation, and deployment.

## Projects

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**MedicBot** 🌐

**2024 – 2025**

Final-year project integrating knowledge graphs with LLMs to translate natural-language queries into structured ones powering a novel EHR system.

**MIT xv6 Enhancements** 🌐

**2025**

Added lightweight threading (clone/join), implemented a ps system call, and ported UNIX-style find & touch.

**Password Manager (Go)**

**2025**

Developed a full password manager system in Go, using modern cryptographic primitives (Argon2id, AES-GCM) to protect a locally stored encrypted vault (SQLite), and implemented user workflows for managing credentials securely.

**Maze Builder & Solver (A\*)**

**2025**

Implemented interactive maze generation and shortest-path solving using the A\* search algorithm with efficient heuristics.

**Tic-Tac-Toe AI (Minimax + Alpha-Beta)**

**2025**

- Built an optimal Minimax agent with Alpha-Beta pruning to reduce explored game states while preserving perfect play.
- Implemented full game engine, win/draw detection, move validation, and CLI/GUI play mode.

## Skills

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- **Languages:** Python, Java, C/C++, JavaScript, HTML/CSS, SML
- **Python:** Gradio, LangChain, BeautifulSoup

Playwright, FastAPI

- **Databases:** Pinecone, Redis, MySQL, MongoDB

- **Tools:** Git, GitHub, Render

## Extracurricular Activities

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- **AUB Orchestra** — Percussionist (2022–Present)