

BOGHOS HAMALIAN

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PROJECTS

RAG Chatbot ([Github](#))

Nov 2025- In Progress

- Developed a Retrieval-Augmented Generation (**RAG**) system that answers user questions based on uploaded PDFs using **Google Gemini** and **LangChain**.
- Implemented document loading, chunking, embedding generation (**Hugging Face**), and contextual retrieval with **Chroma** vector database.
- Built a **FastAPI** backend with a POST API to handle user queries, enabling integration of AI models into applications. Currently containerizing the system with **Docker** and preparing **AWS** deployment, demonstrating cloud deployment and model integration skills.

Real Estate App ([GitHub](#)) ([Demo](#))

Sep 2025

- Built a cross-platform real estate mobile app with **React Native**, **Expo**, and **TypeScript**, allowing users to browse, search, and view detailed property listings.
- Integrated Google authentication and an **Appwrite** backend with a cloud database for secure sign-in and real-time property data management.

Expense Tracker App ([Demo](#))

Mar 2024 - Apr 2024

- Developed an expense tracker application using **Kotlin** in **Android Studio**. The app allows users to add expenses and incomes, automatically calculating the budget. Implemented an **SQLite** database to securely store data, enabling users to view their comprehensive expense and income history.

WORK EXPERIENCE

Computer lab Assistant (Haigazian university)

Beirut, Lebanon
Sep 2021 - May 2025

- Provided technical support to students, assisting with software, hardware, and troubleshooting issues in the computer lab.
- Guided students in using various applications, including productivity tools, programming software, and internet resources.

Jack Gifts Accessories

Shopify Website Manager

Beirut, Lebanon
May 2024 - Dec 2024

- Managed and maintained the Jack Gifts Accessories **Shopify** website, ensuring updates and smooth functionality.
- Utilized **Google Analytics** and **Meta Pixel** to improve website performance and boost social media engagement through data insights.
- Conducted **data entry** and analysis using **Excel** to maintain accurate records. Provided **technical support** for Shopify apps and resolved minor issues to improve the store's overall operations.

EDUCATION

Haigazian University

Bachelor of Science: Computer Science

Beirut, Lebanon
Graduated: May 2025

Melankton and Haig Arslanian Djemaran

French Baccalaureate

Beirut, Lebanon
Graduated: July 2021

TECHNICAL SKILLS

- **Programming:** Python, JavaScript, TypeScript, Java, SQL, HTML5, CSS.
- **Frameworks/Libraries:** React JS, React Native, Expo, LangChain, Scikit-learn, FastAPI, Pandas, NumPy, SciPy, Matplotlib.
- **Tools:** GitHub, Git, MySQL, SQLite, MongoDB, Shopify, Chromadb, Google Gemini API, Hugging Face, Appwrite, Trello, Postman, Excel.
- **Soft Skills:** Time Management, Teamwork, Agile workflow, Problem-solving, Documentation.

LANGUAGES

- English, French, Arabic, Armenian