# Hussein Khodor Khalil

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## Employment

**Part-Time Instructor – Innovators Academy**                                              July 2023 – Current

- Developing curriculums, teaching students from 8 – 18 years Scratch, Machine Learning for Kids, python and html/css.

**Freelancing**                                                                             June 2023 - Current

- Pigrun Solutions
  - Android app UI implementation from a figma file.
  - Website theme installation and content editing.
- Nawa Media
  - Implemented the theme using html/css from a figma file
  - Optimized the website for search engines

## Main Projects

**Customer Support Chatbot (Github)**                                                       (API Python + Flask)

- Rertrieval Augmented Generation (RAG) Customer support chatbot.
- Implemented the bot as a flask api.
- Tech stack: langchain, openai api, pinecone vector database.

**Chatbot for Suicide Prevention (Github)**                                                 (API Python + Flask)

- I've tried to build a text-based chatbot for suicide prevention (i.e., automate suicide hotlines)
- The resulting API (according to my research) is a scaffold for a suicide prevention chatbot that needs community effort.
- I've implemented the API as a mobile app using expo react native.

**Binary text classification for Twitter U.S airline data (Github)**                         (Python, Tensorflow)

- Developed a classification model utilizing a sequential architecture with an embedding layer, bidirectional LSTM, and dense layers to effectively process variable-length sequences for accurate predictions.

**Real Estate Management System**                                                           (PHP/Laravel)

- Key Features: Property Listings, Valuation Requests, Blog, Enquiries.
- Tech stack: PHP, Laravel, MySQL, pusher, Laravel Echo, Bootstrap, SAAS CSS.

## Education

**BSc in Computer Science Lebanese International University (LIU)**                          2019 - 2023

## Professional Skills

- HTML, CSS + SASS, JS, Bootstrap, PHP, Laravel, MySQL, Wordpress, React
- Python, NLTK, Langchain, Pinecone, Spacy, Keras, SciPy, pandas, numpy, Tensorflow
- Java, SDLCs (mainly agile), Git, Github, CI CD CT

## Languages

Arabic: Native English: Fluent