

**Hussein Harb**  
**Computer Engineer**  
hzh09@mail.aub.edu

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**EXPERIENCE**

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**BACK-END/DevOps ENGINEER (INTERNSHIP)**  
**CLOUD GATE CONSULTING**

**Aug 2022 - Dec 2022**

- Proficient in Python and Flask framework, with experience in developing follow/unfollow service using Flask and MongoDB and testing it using Postman. Experience in writing YAML scripts for provisioning endpoints for Flask in OpenAPI.
- Strong knowledge of Linux commands and Bash scripting, with hands-on experience in creating Ubuntu VM instances using VirtualBox and practicing Ansible on them.
- Knowledge of configuring a group of servers at once using Ansible and installing Apache server on them, along with basic modules.
- Familiarity with Google Cloud Platform (GCP) and its services, such as IAM policies, billing, resource hierarchy, the concept of least privilege, Cloud Build, Cloud Function, Cloud Domains, Cloud Storage, Firestore, Cloud Logging, Job Scheduler, Big Query, Artifacts, and Google OAuth.
- Experience in writing Docker files, building Docker images, and deploying them to Docker Hub or a private repository like GCP Artifact Registry.
- Knowledge of Kubernetes, with experience in deploying container apps and managing replicas of an app using deployments.
- Familiarity with Terraform for provisioning infrastructure, with the provider being GCP and using it to create resources in GCP like VM instances.
- Experience in building a CI/CD pipeline using Cloud Build that trigger on pushing to a GitHub repo, integrates the code, containerizes the app, and deploys it to a Google Artifact Registry, then to Google App Engine.
- registering a domain using Cloud Domains, pointing an app service to a domain, configuring VPNs, subnetting, or firewalls

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**EDUCATION**

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**American University of Beirut (AUB)**  
**B.E, Computer and Communication Engineer**

**April 2019 - May 2023**

**Relevant courses:** Advanced Data Structures and Algorithms • Object-Oriented and Effective Java Programming • Software Engineering • Web Programming and Design • Cryptography and Networks Security • Computer Organization and Operating Systems • Data center Engineering • Data Base Management • Web Services in the Cloud

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**PROJECTS**

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**Simple Backend Chat Service.**

- Created a chat service that allowed users to start conversations and post messages to a conversation using Cosmos DB, ASP.NET Core web API, and Azure Bus Service (pub/sub)
- Created a CI/CD pipeline using GitHub Actions to continually integrate, and test then deploy the app to Azure App Service

**E-commerce website**

- This site allows users to create their own store page and post their products. Each store has a management page where the admin can manage the store's inventory and show some statistics in addition to having a search engine for all the products in all the stores. tech used: react, bootstrap, flask, MongoDB.

**Website for My University Landscape Plants Database**

- This site has a search engine that can filter results based on more than 20 characteristics of a plant. Besides that, it provides full info about each plant (name, origin.). tech used: JavaScript -Nodejs - express – MongoDB.

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**SKILLS**

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**Technical:**

languages: Python Java • C/C++ • JavaScript • C# • swift Familiar with databases: SQL SQLite MongoDB MySQL • web development: Django, NodeJS, express, react • .net • HTML/CSS, flask, bootstrap, jQuery • familiar with mobile development: Xcode, android studio • DevOps and other skills: Trello, GitHub, docker, open API, Kubernetes, data structure and algorithms, Microsoft Office

**Soft:**

Critical thinking • Teamwork • Presentation • Public speaking • Social skills

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**LANGUAGES AND NATIONALITY:** FLUENCY IN BOTH **ENGLISH** AND **ARABIC**, AND HOLD DUAL **CANADIAN LEBANESE** NATIONALITY.

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