Achraf Ezzaam

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Professional Summary

Experienced software engineer with a strong focus on Python and versatile skills across multiple languages. Currently, I'm honing my software expertise through a 12-month certification program with ALX, demonstrating my commitment to continuous growth. With 2 years of successful freelancing experience, I bring a track record of delivering high-quality solutions. Passionate about technology, I thrive on challenges and I am eager to contribute my skills to innovative projects.

Skills & Certifications

Languages: JavaScript | Python | C | HTML | CSS
Tools / Platforms: Bash | Git/Github | AWS
Frameworks: SQL | Flask | Django | ExpressJs | React
Certificats: Cloud Developer | Python Developer

Work History

Freelance | Full-stack developer
Morocco
October 2020 - June 2021

I successfully developed an education-focused management tool as a robust monolithic app using Flask. This experience deeply enriched my skills.
- Client Interaction: Directly engaging with education stakeholders honed my communication. Understanding their needs and translating them into practical features, with regular feedback, taught me active listening and aligning solutions precisely.
- Guiding Indecision: Confronting uncertain clients refined my flexibility. By presenting structured options, discussing pros and cons, and addressing concerns, I learned to guide hesitant clients to decisions contributing to success.
- Architectural Insight: Architecting the app highlighted the importance of clear project structures. Organizing frontend using HTML/CSS, integrating JQuery for API interactions, and designing a backend API for scheduling and data analysis emphasized modular design, scalability, and efficient code organization.
- Engaging clients, adapting to uncertainty, and holistic architecture transformed a project into a profound learning experience. This journey significantly enhanced my communication, adaptability, and software architecture skills.

Tools used: Flask | HTML | CSS | Javascript | Jquery | Bash | MySQL

Ircelyon | Researcher
France
January 2019 - December 2019

As a researcher, I organized and managed large datasets, ensuring easy access and efficient analysis. I also created visually impactful representations of complex data, enabling clear communication of atmospheric patterns and trends. Through these experiences, I honed valuable skills in collaborative teamwork and meticulous organizational discipline.
Tools used: Python | SQL

Notable Projects

Udagram - Microservices
2022

Udagram is an image filtering app that enables the user to create an account, login and upload pictures to their feed and apply an image filter. The app is consists of a Frontend (Angular/ionic) and a Backend (nodejs/Express) Resful api :
- Refactoring the app from monolithic to microservices
- Configuring each microservice to execute in a - Docker container
- Conguring a Travis CI pipeline to push images to Dockerhub
- Deploying the Dockerhub images on a Kubernetes cluster using aws's EKS

Tools used: Node | Angular | Docker | Kubernetes | AWS

[Link to project](#)

TODO - Serverless App
2022

In this project we built and deployed a Todo App using AWS Lambda and the serverless framework to deploy and provision the resources. The app enables the user to:
login/logout (using autho0 to authenticate)
Create, Delete, Update and Get todo's
Tools used: Node | React | Serverless | AWS

[Link to project](#)

Simple Shell
2023

The project's main goal is to create a basic UNIX command line interpreter with these features:

- Prompt and Input: The interpreter will show a prompt, awaiting user commands terminated by newlines.
- Execute Basic Commands: It will handle one-word commands, using the system's PATH to find and run executables.
- Error Handling: The interpreter will handle errors by notifying if a command isn't found and continue waiting.

- Ctrl+D Handling: When users press Ctrl+D (EOF), indicating the end of input, the interpreter will give a proper message and exit gracefully.

Tools used: C

[Link to project](#)

AirBNB Clone
2023

The initial phase of building the AirBnB Clone web app includes these key objectives:

- BaseModel Class Creation: Develop the core BaseModel class, serving as the foundation for all app classes. It manages initialization, serialization, and deserialization for instances, forming the app's data structure.
- Serialization Flow: Implement a seamless flow for converting between instances, dictionaries, JSON strings, and file storage. This enables efficient data handling.
- Core Entity Classes: Create specialized classes (User, State, City, Place, etc.) inheriting from BaseModel. These classes define unique attributes and functions for each AirBnB entity.
- File Storage Integration: Introduce the "File storage" engine, managing data storage and retrieval from local files. Ensure proper serialization and deserialization for data persistence.
- Unit Testing: Develop comprehensive unit tests to validate class attributes, methods, and the file storage engine's functionality, ensuring reliability and correctness.

Tools used: Python, unittest

[Link to project](#)

Education

ALX and Holberton Certificate Software Engineering
Morocco
February 2023 - ongoing

Faculté des sciences Rabat Master of Information Theory
Morocco
September 2014 - January 2017