Elias Hawa

Computer Science Student and Software Developer

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Work Experience

Software Developer

🏢 Carleton University Blueprint   📅 Sept 2020 – Present Day (Ongoing Project)   📍 Ottawa, ON

Keywords: *Python, Flask, Flask-RESTX, Flask-SQLAlchemy, PyTest*

- **Developed back-end CRUD operations and APIs** using **Flask-SQLAlchemy and Flask-RESTX**, for the correct creating, retrieving and handling of **sensitive information**.
- **Wrote** several **methodical unit tests** using **PyTest and a Swagger API** which allowed for the proper formation and maintenance of features.
- **Participated in** to weekly **retrospective and sprint meetings**, allowing me to obtain experience with the **Agile workflow**.
- **Performed thorough research** on the **DocuSign API** for it's usage in our project.
- **Completed thorough code reviews** on **a wide range** of **pull requests**, providing experience in **quality assurance and collaboration**.

Software Development Projects

Syllogistic Fallacy Trainer
Innovated an original application to aide philosophy students in understanding syllogistic fallacies by using exemplary problem solving skills, **improving student performance on assessments by a notable margin** (Java).

Event Management Discord bot
Created an event queue management discord bot with three other students during a 24-hour hackathon, using **Discord.py**. Was in charge of **hosting and development** of the bot. **Bot is currently being used in over 60 servers** for both academic and recreational use. (**Discord.py**).

Web-Automation Application
Built a web-automation application to enter raffles using the **Selenium library**. Was able to apply quick learning skills to learn the library very quickly. Application has been used to enter **over 10000** raffles and has **saved a cumulative 11 hours of time** (**Java**).

Command Line Interface game
Wrote a single-player command line interface game in a group of four students, **focusing on collaboration, team work and open communication** and **applying version control principles**, providing valuable experience working in a team environment and using **Git** (**Java**).

Blackjack Bot
Completed a working game of blackjack as well as bots that play it with certain strategies by implementing concise **logic and algorithms**, allowing me to explore and improve my skills in designing algorithms (**Python**).

Technical Skills

Languages / Libraries

Java   Python   HTML/CSS   Selenium   Flask   JavaFX   Discord.py

Other Technologies

Git   GitHub   IntelliJ   PyCharm   Heroku

DocuSign   Notion   Jira   VSCode   Notepad++

Other skills

Algorithms and data structures   Object-oriented software design   Web automation   Agile development   Unit testing

Education

Bachelor of Computer Science Honors

🏛 Carleton University   📅 2020 - 2024   📍 Ottawa, ON

Soft Skills

Dedicated   Bilingual (French and English)   Fast learning

Hard working   Critical thinking   Organization

Communication   Cooperative   Leadership