Selman Tabet

Software Engineer & Tech Enthusiast

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WORK EXPERIENCE

Software Engineer   April 2022 – July 2022
Snoonu, Doha, QA

Increased sales volume by integrating Shopify into Snoonu's Fleet Management System - FalconFlex.

- Enabled a new sales channel by creating an integration gateway with FalconFlex for merchants to use
- Lowered the overhead required from Shopify merchants' part by automating the order fulfillment process using webhooks, a self-architected Flask-based server and PostgreSQL
- Streamlined the R&D process by creating the Snoonu SAMs; an internal set of metrics used by the FalconFlex team to assess the performance of the order dispatch algorithm implementations
- Ensured availability and reliability of developed services through various error handling techniques and by using Azure DevOps
- Enhanced PostgreSQL database performance through table distribution via Citus

Software Engineer   January 2022 – April 2022
sKora Tech, Doha, QA

Developed various parts of the backend infrastructure, including API development, data scraping and data analytics.

- Refined the data acquisition process by developing scraping scripts to automatically gather and update research data on a consistent basis using MySQL and BeautifulSoup
- Enabled app developers to communicate with the data via the development of a player information API using FastAPI
- Improved the development pipeline by authoring internal documents for other engineers to use to understand the inner workings of the infrastructure as well as the company's plan for it

Software Engineer   May 2019 – September 2019
Qatar Computing Research Institute (QCRI), Doha, QA

Developed data processing routines for the Zamanya eHealth framework; a Python-based library that aids in the determination of sleep quality using sleep data via machine learning.

- Improved data intake processes by developing code that allows for the processing of new data in real-time using the Fitbit API.
- Ensured data formatting compliance of new incoming data with the framework by using Pandas.

EDUCATION

Hamad Bin Khalifa University (HBKU), Doha, QA
Bachelor of Science in Computer Engineering – 05/2021

Cardiff University, Cardiff, Wales, UK
Master of Science in Computing and IT Management – In Progress

SELECTED PROJECTS

Project HARPY   January 2020 – December 2020

An implementation of a monitoring system for the detection and classification of anomalous and rogue IoT devices within a local network using machine learning.

- Developed data preprocessing functions including capture file processors and feature extraction algorithms for machine learning
- Setup a live experiment where IoT devices were connected, then set up a NIDS to capture all simulated network traffic across the LAN for neural network training
- Authored a technical report in LaTeX, covering every part of the project

Cryptocurrency Investment Adviser   October 2017 – Present

A program that is meant to be used as a helper for investors when making decisions related to cryptocurrency investments.

- Developed a dashboard that allows users to login, invest and cashout cryptocurrency using Tcl/Tk
- Retrieved live data from GDAX in real time to represent current cryptocurrency trends.
- Used OLS regression to devise indicators that can aid in the users' investment action decisions.

SKILLS

Programming Languages: Python, C, C++, Java, MATLAB, Assembly, Verilog, VHDL
Techniques: API Development, Database Modeling, Network Analysis, Firmware Programming
Tools and Frameworks: Git, Pandas, Flask, FastAPI, PostgreSQL, MySQL, Azure DevOps, Docker, OR-Tools
Media Production Tools: Adobe CC (Premiere Pro and After Effects), FL Studio, Audacity, OBS

AWARDS

First Place in STEAM Showcase - Video   December 2019

Video titled "Sustainable Soap". Produced by myself. Worked with virtually no budget and only stock footage, although VO was done in-house.

First Place in Coding Competition Spring 2021   March 2021

Intra-college competition organized by the HBKU Math & Computer Club for students to solve basic Python debugging issues and programming problems in a timed setting.

LANGUAGES

English – Fluent   **Arabic –** Fluent   **Spanish –** Intermediate   **Hindi -** Intermediate