Mohamed Ahmed Mahmoud

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HIGHLIGHTS

- Solid Software Development in Python, Java, C, and C++, gained from work and projects
- Great knowledge/experience in testing L2/L3 protocols such as multicast, OSPF, FNF
- Proficient in automation, with hands-on experience in **PyATS** for network testing and Selenium for web automation.
- Team oriented and skilled in working within a collaborative environment.

EDUCATION

Bachelor of Engineering, Computer systems.
Carleton University, Ottawa, Ontario. September 2017 – June 2022

- Graduated with Current CGPA: 9/12 (B+).
- Graduation date: June 2022.

WORK EXPERIENCE

Software QA Test Engineer
Cisco, Ottawa, ON Canada July 2022 - present

- Developed APIs and parsers in python using pyATS
- Wrote test cases to test multicast traffic using IXIA on new catalyst switches series
- Replicated defects reported by customers and filed bugs if needed

Automation Scripting
Ericsson, Ottawa, ON Canada September 2020– August 2021

- Developed many tools to Automate repetitive tasks such as (A tool that automatically recognizes a specific series of emails and auto-populates their content onto a website)
- Assisted fellow engineers to modify and add more logic to a given code in python and Perl
- Gained amazing hands-on experience in using automation tools such as (MS Flow, Azure, Selenium, Docker)
- Check the Jira board daily for tasks to assign them to me, and then update the team of any progress done in the daily meetings

Research Associate
Carleton University, Computer Systems Department January– August 2020

- Acquired great experience with embedded C, MATLAB, Python and learned/used Linux
- Used HTML, CSS, JavaScript and Markdown files to modify the website of the team
- Assisted other colleagues when needed like configuring Windows/Ubuntu on a server

APPLIED PROJECTS

Vision-Based Control Robot (4th year project) **September 2021 – April 2022**

Team member

- Built a server that is hosted by python Flask, which streams the robot openCV live video
- Established a connection between the javascript and python using XMLHttpRequest to pass data (such as the coordinates of a click on the live stream hosted on the server)
- Writing a basic object detection script using SSD algorithm in openCV
- wrote a ROS motor controller script in python
- Established a connection between the ROS subscriber and Publisher in C++

Autonomous Vehicle Curb Detection **January - April 2020**

Team member

- Used code to implement data virtualization in a linux environment.
- Found techniques for curb detection in autonomous vehicles
- Assisted other colleagues when needed like configuring windows/ubuntu on a Server

Digital Alarm Clock **September – December 2019**

Team member

- Used Two Raspberry pis and an Arduino to build the system
- Utilized Git to collaborate with other team members to write the code needed
- Built an android application using an android studio that controls the alarms of the hardware digital clock
- Used Linux command lines to send JSON files using UDP from an android application to

Connect-Four game in Java **September – December 2018**

Project Owner

- Developed the game engine that is made of three classes.
- Designed the GUI using JavaFX where the Observable class and the Observer interface was used to link both the game engine with its graphics