Shafee Mustafa

SOFTWARE ENGINEER

Warren, MI

(248) 259-3815 | mustafa761313@gmail.com | mustafa367 | mustafa367

Education

Michigan State University

East Lansing, MI

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS, GPA: 3.9/4.0

May 2021

Skills

Languages Python, Java, C++, C#, C, HTML, Javascript, ARM Assembly, MATLAB, SQL, Haskell, PHP, Tcl **Libraries** OpenCV, Keras, NumPy, SciPy, PyQT, Python Imaging Library, Microsoft Foundation Class, Flask

Applications MATLAB, Simulink, Unity, Unreal, MagicDraw, Carla, CarMaker

Other Linux, Git

Experience _____

Ford Motor Company

Dearborn, MI

ADAS SIMULATION ENGINEER

April 2022 - Present

- Tested Advanced Driving Assistance System (ADAS) features in a closed-loop simulation environment to identify bugs
- Automated creation of driving scenarios based on real-world drives to verify bug fixes and enable regression testing on feature updates
- Architected and developed pipeline for the calculation of key performance indicators to evaluate overall feature performance over large-scale simulation
- Integrated C++ code and Simulink models for Software-in-the-Loop testing

Waymo via Akorbi

SOFTWARE QUALITY ASSURANCE

June 2021 - April 2022

Novi, MI

- Analyzed data logs (lidar, radar, camera, steering, braking, etc.) from the Waymo autonomous vehicle.
- Validated the latest software releases to ensure they can be pushed to the full Waymo fleet.
- Performed detailed root cause analysis of behavioral issues noted by drivers.
- Filed bugs for new failure modes or notable trends.
- Produced reports analyzing performance of new software versions in real-world testing.
- Communicated regressions and new issues with software engineers.
- Mentored new employees in how the various modules of the Waymo car work, how to use internal tools, and how to perform detailed root cause analysis.

Project _____

CSE 498: Malware Reverse Engineering Platform

MICHIGAN STATE UNIVERSITY

- Designed and coded a platform that integrates Cuckoo, an automated malware analysis system, and MISP, a threat intelligence sharing tool, that can pull files of interest from a variety of sources
- The files of interest can be manually inputted by the user, automatically scraped from a given website, or obtained from VirusTotal's repository
- Files of interest are automatically sent to Cuckoo for analysis, and the output log is automatically sent to MISP for use by the organization
- Project was requested by and designed to the specifications of GM's cyber intelligence team
- Written using Python, HTML, JavaScript, PostgreSQL, Flask.