Mohaimin Ehsan

Software Engineer | DevOps Engineer

+1-289-407-5858
mohaiminehsan@outlook.com
mehsan@brocku.ca
/mohaimin-ehsan-02072412b
/MohaiminEhsan
mohaiminehsan.github.io/Homepage/

Education

M.Sc. (Research) in Computer Science 2021 – 2023
Brock University *ON, Canada*

B.Sc. in Computer Science and Engineering 2013 – 2017
Islamic University of Technology *Dhaka, Bangladesh*

Experience

Graduate Research Assistant Jan. 2021- Present
Brock University *ON, Canada*

- Conducted urban vehicular simulation for varying simulation time vehicle densities.
- Established fuzzy-based prioritization model for handling vehicular requests.
- Created resource allocation model using Q-Learning.
- Wrote scripts for data extraction from simulation.
- Automated simulation process for generalized results.
- Vehicular Simumaiton using Omnetpp, Veins, Sumo5G.

Senior Software Engineer Feb. 2018 – Oct. 2020
Samsung R&D Institute Bangladesh *Dhaka, Bangladesh*

- **CI/CD:** Created and administered the complete CI pipeline for iOS, Android, Windows and Tizen. Developed and maintained CD system for iOS and android using AWS and xcrun.
- **Build:** Build time optimization, Proof build, Central and Custom build, Distributed parallel build system.
- **Scripts:** Different scripts for automation, build, API customization, deployments and overall generalized procedure using Python, Shell, Batch, Groovy.
- **Static Analysis:** Tailor, Clang, SwiftLint, SonarQube, Coverity Scan, CppDepend, OCLint, Cpplint.
- **Release process automation:** Standalone system to automate proper software release process for testing.
- **TAF:** LTE Test Automation Framework using Docker, WordPress, Jenkins, CodeIgniter.
- **Testing:** Automated UI testing using test scripts and automation tools, Conducted Application testing.
- **R&D Hub Dashboard:** Created an internal collaborative system for serving operational requests.
- **ADS:** Artifact Deployment Service using Python, Docker, MySQL, Venv
- **SA-ACR:** Static Analysis based Automated Code Review in the repository.

Research

Priority-Based Resource Allocation Model for VFC *Platform: Veins, SUMO, OMNet++*
Renovo: A Sensor-Based Therapeutic System for Brachial Monoplegia *Platform: Python, Arduino, IMU*

Skills

Contributed Projects Samsung Health, Samsung GearS, Samsung Dex, My Galaxy, Samsung Heartwise
Programming Language C/C++, Java, Python, Objective-C, Haskell, R, PL/SQL, JS
Scripting Ruby, Shell, BAT, Node.js
Framework Django, CodeIgniter, Laravel, Groovy, React Native,
Dev Ops. QuickBuild, Jenkins, Nagios, AWS, Docker, Kubernetes, Chef,
ML PyTorch, scikit-learn, pandas, Tensorflow
IDE Xcode, Android Studio, Visual Studio, IntelliJ, Arduino IDE
Automation Selenium, Appium, Pytest, JUnit
Version Control Git, SVN, Perforce

Achievements

→ *Brock University Graduate Fellowship & FMS Best Summer Research Award*
→ *1st place for Projects & 3rd place in university programming contest*
→ *SRBD Icon of The Month in 2019*
→ *OIC Undergraduate Scholership*