Mohamed Adem

Computer Engineering Student

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Skills

Programming Languages:

C/C++ • Java • C# • Python • ASM • Scala • JavaScript • SQL • MATLAB

Development Tools:

Git • Jira • AWS • OpenCV • Docker • VS • Jenkins • Gradle • JetBrains

Operating Systems:

Windows • Linux • OS X

Other:
- Test Driven Development
- Embedded Systems & MCU's
- Data Structures & Algorithms
- Batch Scripting & Automated Testing
- Data Extraction & Web Scraping
- Computer-Networking

Extra-Curricular

Robotics Software Mentor

Assisted in mentoring high school students in CAD, programming and mechanical design for the annual FIRST competition (2019-2020)

IEEEXtreme Programming Comp

Participated in the IEEE 24Hr coding challenge and finished within the top 50 teams in the nation

Interests

Chess • Soccer • Ethical-Hacking • Computer Vision • Cyber Security • Drawing • Mechatronics

EDUCATION

Bachelor of Engineering - Computer   2018 - Present

Memorial University of Newfoundland, St. John's, NL

- + Current GPA: 3.6
- + Received the annual PEGNL award (value: $1500)

EXPERIENCE

Software Developer   August 2020 - Present

Verafin, St. John's, NL

- + Developing analytics software in Java to detect and prevent human trafficking
- + Fixing customer reported bugs and creating documentation
- + Working with Postgres, Docker, IntelliJ and AWS

Automation Developer   May - August 2020

Matrox, Montreal, Quebec

- + Developed a C# application to replace a third-party tool that saved my department an estimated $50,000
- + Developed and deployed automation scripts
- + Developed a Python GUI application to scan and record inventory
- + Provided technical training to new department employees

SQA Developer   January - May 2020

Matrox, Montreal, Quebec

- + Developed a Java GUI application with embedded Batch scripts that automated repetitive tasks
- + Developed Autoit scripts to automate tests performed on UI applications
- + Developed a Powershell script to replace a third party expired license testing software
- + Tested and verified IP graphic cards and operated on switches, fibre optic cables and multiple operating systems
- + Discovered and reported bugs

PERSONAL PROJECTS

Magic Booth – Personal (Demo on Website)   2020

- + Developed a camera booth application that implements face and smile detection technology using OpenCV in which the app initiates a 3 second timer to capture a photo when a smile is detected

AskMe Discord Bot – Personal (Demo on Website)   2020

- + Developed an autonomous smart chat bot using Python that web scrapes the Wikipedia website for the information on a target specified by the user

Automated Skittles Sorter Machine – Team of 2 (Demo on Website)   2019

- + Built a fully automated machine that sorts skittles by color using an Arduino Uno, color sensor, servo motors and C++

More info and projects on my personal website