

Mohamed Adem

Computer Engineering Student



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Skills

Programming Languages:

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

Development Tools:

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

Operating Systems:

macOS (the best ever) • Windows • Linux

Other:

- Leadership & Adaptability
- Test Driven Development
- Embedded Systems & MCU's
- Data Structures & Algorithms
- Batch Scripting & Automated Testing
- Data Extraction & Web Scraping

Extra-Curricular

Hackathon Operations Lead

Lead the operation organizing team at Hack Frost NL to host a virtual global hackathon of 200+ participants and \$100k+ in prizes (2020-2021)

Robotics Software Mentor



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

IEEEExtreme 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 || Class of 2023

2018 - Present

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

- + Received the annual PEGNL award

EXPERIENCE

Vice President

August 2021- Present

Google Developer Student Club, St. John's, NL

- + Co-managing the first ever Google Developer Student Club in Atlantic Canada
- + Providing learning opportunities to a growing community of over 150 Students

Software Developer

August 2020 - Present

Verafin, St. John's, NL

- + Developing behavioural based analytical software to detect and prevent human trafficking
- + Fixing customer reported bugs, creating documentation, and deploying new features to thousands of customers
- + Directly communicating with customers and providing technical onboarding and mentorship to new team members

Automation & SQA Developer

January - August 2020

Matrox, Montreal, Quebec

- + Developed a C# application to replace an expired 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

PERSONAL PROJECTS

ScrapShare – Team of 2

2020

- + In 24 hours, my partner and I developed ScrapShare; a cross-platform flutter application that allows users to post ads for scrap raw material for other people to pick up for free. This was an attempt to promote reusability and increase the life cycle of raw material. This project won 2nd place at Hack Mount Pearl

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++**