Mohamed Mahmoud

Computer Engineering Student

Motivated student with 4+ years of work and school experience. Innovative and proactive, I've competed in four Hackathons. I worked in companies with different sizes, and I easily thrive within the team.

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EDUCATION

Bachelor of Computer Engineering
Memorial University of Newfoundland

01/2015 – Present *St.John's, NL*

Graduating in May 2019.

- Co-op Program - Fourth Year.
- Memorial University $3000 Entrance Scholarship.

WORK EXPERIENCE

Nuage Customer Support Engineer
Nokia

01/2018 – 04/2018 *Ottawa, ON*

Achievements/Tasks

- Nuage is a newly founded product that enhances the technological advance of Network Function Virtualisation.
- Solved critical problems in networks with 100s of servers.
- Developed my expertise in Network Function Virtualisation.
- Created Bash and TCL scripts for Nuage's UK customers to extract their servers' tech-support files.

Full-stack Developer
Bluedrop Learning Networks

06/2017 – 09/2017 *St.John's, NL*

Achievements/Tasks

- Enhanced my coding skills using HTML5, JavaScript, Angular JS and Jasmine Unit tests.
- Developed new features in Bluedrop's web platform to improve the company's customer experience.
- Wrote SQL migration scripts and worked with AWS S3 buckets.
- Used Docker to troubleshoot errors in the platform's modules.
- Experienced using JIRA, Codeship, Bitbucket and Git.

Software Developer
Verafin

09/2016 – 01/2017 *St.John's, NL*

Achievements/Tasks

- Communicated with different US banking technical departments to ensure appropriate data transfer and analysis.
- Contributed with innovative ideas in software development meetings and advanced my skills with Java.
- Used PostgreSQL DB and AWS S3 Buckets to manipulate data.
- Experienced working in Agile fast-based environment.

Control Systems Engineer
Engineering Faculty, Memorial University

01/2016 – 05/2016 *St.John's,NL*

Achievements/Tasks

- Designed a motor position and speed feedback control system.
- Wrote 300+ lines of C++ code for the system's microcontroller.
- Designed the system's circuit and PCB using Eagle CAD.
- Conducted multiple tests on the designed circuit and decreased noise ratio by analysing the circuit's signals using oscilloscope.

SKILLS

Eagle CAD | PCB design | ATmega Assembly | Arduino | Quartus VHDL | ModelSim | OpenCV | ROS | MatLab | Bash | TCL | AWS S3 buckets | SQL Query | Jasmine Unit test | Bitbucket | GitHub | Salesforce | JIRA

HACKATHONS

SF Hacks - San Francisco State University (03/2018)
- Created an image recognition app using OpenCV to tell the users if a Facebook friend is at their home door. The app is powered by Amazon Alexa.

Starters Hacks - Waterloo University (03/2018)
- Created an IoT solution that reminds elder people of their daily pills to take. The application was powered by Amazon Alexa and Dragon board.

Steel Hacks - University of Pittsburgh (02/2018)
- Developed an application using Image recognition (OpenCV) to detect drivers eyes and altered them if they fall a sleep while driving.

UOtta Hack - University of Ottawa (02/2018)
- This was my first Hackathon. We created an app that generates the nutritional value of user's groceries from an image of the shopping receipt.

EXTRACURRICULAR

MUN SAE Aerospace Club - Control Systems team lead (03/2017 – Present)

Building the lateral control system for the competition aircraft. Sensors board PCB design, microcontroller C++ code, RC transmission, and battery pack.

Paradigm Hyperloop Team - Control Systems team member (04/2016 – 05/2017)

Selected and setup different sensors for the pod's testing stage, and developed controls for the pod levitation airflow balancing system.

LANGUAGES

C++	●●●●○
Java	●●●●○
Python	●●●○○
JavaScript	●●●●○
AngularJS	●●●○○
HTML5	●●●●○

INTERESTS

Robotics | Mars Rover | Automation | IoT solutions | Coding | Swimming | Hiking | Travelling | Gym