Areeba Aziz

Software Engineering Student

in linkedin.com/in/areeba-aziz   github.com/AreebaAziz

+1 306 501 6378   @ aziza11@mcmaster.ca   areeba.ca

Toronto, Ontario

🏛 EDUCATION

BACHELOR OF SOFTWARE ENGINEERING (CO-OP), McMaster University
Expected Graduation, 2022

☰ SKILLS

Languages	Python, Java, C, PHP, Bash, JavaScript, SQL, HTML/CSS
Tools/Frameworks	Git/GitHub, Mercurial, Django, Wireshark, Docker, Make/CMake, Jenkins, Buildroot, Bootstrap
Hardware	FPGA Design, Verilog, SystemVerilog, Quartus II, ModelSim, Arduino, EsduinoXtreme, Autodesk Inventor, hobby electronics, lab equipment (oscilloscope, multimeter, soldering)
Networking	VLANs (802.1 Q), VoIP, SIP, STUN/ICE/TURN, firewalls, DHCP

💼 INTERNSHIP EXPERIENCE

Jan 2019 – Aug 2019

DevOps Software Developer, ARCTURUS NETWORKS INC.

> Managed the automated testing infrastructure and continuous integration (CI) of embedded systems products. Took ownership of the automated testing platform, built the CI platform from scratch using Jenkins.

> Made several major design improvements to our automated testing platform. Used Docker to containerize the entire testing and CI system, and created separate development and production environments.

> Re-factored the Python codebase to follow best object-oriented practices, ultimately resulting in a much more stable and robust system. Took full responsibility of maintaining, adding new features, and fixing bugs of our test framework for eight months.

> Created the CI pipeline for all our dozen+ embedded systems products, resulting in a reliable nightly testing system that for the first time effectively reported on new regression bugs as soon as they are introduced.

> Wrote the CI procedure in Jenkins groovy script that used ssh to connect to our build server, pulled latest changes from hg version control, ran a build script for the specific product (some using buildroot, others CMake), uploaded the firmware onto the test devices, and started full regression testing.

> Automated the build process for Kinetis K64, an ARM-based microcontroller, using CMake and bash scripts.

> Performed manual tests on our embedded system products. Gained valuable hands-on experience using Wireshark, debugging low level firmware, configuring SIP proxies and various types of network infrastructures, worked with port-based and 802.1Q VLAN, STUN/ICE/TURN servers, firewalls, DHCP, buildroot.

May 2018 Aug 2018	**Backend Software Developer, Checkout 51 Mobile Apps ULC** › Developed an improved release management tool for the team's continuous development flow using PHP, SQL/MySQL, JavaScript. Created a system that stores information of a release on the database, automates tasks such as trigger Jenkins crons that create new release branches on GitHub based on given list of branches to deploy, and sends emails upon success. Reduced the process of building deploys from over 30 minutes to less than 5 minutes. › Added new features to internal development tools; modified existing user-facing code that fixed bugs and added functionality. Successfully completed tasks originally planned for senior developers.

💼 Work Experience

Sept 2017 Present	**Special Projects Assistant, Outreach and Engagement, McMaster University Faculty of Engineering** › Developed a Python arcade-style video game for the FIRST Robotics McMaster University District Competition, using a Raspberry Pi › Played a key role in planning the FIRST Robotics McMaster University District Competition; assisted with events such as the Global Engineering Deans Council Conference. › Represented the Faculty of Engineering at outreach events and conferences such as university open houses and the McMaster Engineering Artificial Intelligence Conference.
Fall 2018 Fall 2019	**Teaching Assistant, McMaster University Faculty of Engineering** › Principles of Programming - 2nd Year Computer Science course : Led tutorials covering fundamental programming concepts in C; helped professor write quizzes and midterms. › Engineering Co-op Preparation Course : Provided students feedback on their resumes and responded to inquiries regarding professionalism in the workplace.
Sept 2016 Aug 2017	**Engineering Recruitment & Communications Assistant, Engineering Recruitment Office, McMaster University Faculty of Engineering** › Developed and organized content for new prospective student website for the Faculty of Engineering; updated old website using HTML, CSS and JavaScript. › Revamped Women in Engineering Excellence Day event to include hands-on technical workshops and participation in university lectures. › Helped plan various recruitment events such as university open houses; led engineering facility tours for prospective students and their families.

👥 Extracurricular & Leadership

Research and Development Associate, McMaster Hyperloop Team	2019 - 2020
Student Ambassader, OSPE McMaster Exchange Hub	2019 - 2020
McMaster Image of an Engineer Award Recipient, McMaster Engineering Society	2019
Secretary, McMaster Electrical & Computer Engineering Society	2018
Co-Vice Chair, IEEE McMaster Student Branch	2017 - 2018
Second Year Representative, McMaster Electrical & Computer Engineering Society	2017 - 2018
CEO of Alpha, Boston Startup Incubator Leangap	2016
Team Lead, FIRST Robotics Team 4914	2015 - 2016
Chief Technology Officer, Jardin, a Junior Achievement Company	2015 - 2016