Areeba Aziz

Software Engineering Student

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◉ 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	ReactJS, npm, Git/GitHub, Mercurial, Django, Wireshark, Docker, Make/CMake, Jenkins, Buildroot, LaTeX
AWS	EC2, VPC, NLB, PrivateLink, Endpoint Service, Route 53, Lambda, CloudFront, CloudFormation, CodeDeploy
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

May 2020 – Aug 2020

Software Development Engineer Intern, AMAZON

> Built a secure internal web app from scratch that helps developers and accountants visualize complex entity-relation data related to Amazon.com orders

> Used various AWS services to build the back-end infrastructure, and hosted the front-end static website on S3 distributed by CloudFront

> Wrote a new React JavaScript library that allows developers to use the same logic functions to visualize other models of entity-relation data. This library will be used by many developers in the Ordering organization of Amazon.com

> Completed end-to-end delivery of my project, from requirements, design, to implementation, testing and full documentation

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. Refactored the Python codebase to follow best object-oriented practices, ultimately resulting in a much more stable and robust system.

> 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.

> 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

Aug 2020 Present	**Archway Mentor, Housing & Conference Services, McMaster University**
	> Mentor a group of 40 first-year students as part of an initiative called Archway that helps ease the transition from high school to university during the COVID-19 pandemic

Fall Terms 2018 - Present	**Teaching Assistant, McMaster University Faculty of Engineering**
	> Principles of Programming - 2nd Year Computer Science course
	> Engineering Co-op Preparation Course

Sept 2017 Apr 2020	**Special Projects Assistant, Outreach, McMaster University Faculty of Engineering**
	> Played a key role in planning the FIRST Robotics McMaster University District Competition; assisted with events such as the Global Engineering Deans Council Conference.

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

President and Founder,	**Google Developer Student Clubs McMaster University**	2020 - present
Student Ambassader,	**OSPE McMaster Exchange Hub**	2019 - 2020
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

⭐ Awards

Co-op Student of the Year Award,	**McMaster Faculty of Engineering**	2019
Image of an Engineer Community Appreciation Award,	**McMaster Engineering Society**	2018
Community Achievement Award for Inspiration,	**The Pakistani Community Center for Canada Inc.**	2015