Irteza Arif 4B Electrical & Computer Engineering

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TECHNICAL SKILLLS	**Programming Languages:** Applicable knowledge of C#, Java, C++, Objective C, embedded C, Visual Basic, MATLAB, PHP, Python, VHDL, JavaScript, Bash shell scripting, SQL
	Platforms: Android, iOS, Windows, Linux, UNIX, Blackberry 10, Mac OSX
	Web: HTTP, REST, JSON, XML, HTML, CSS, General TCP/IP networking concepts, AngularJS, React, Content Management Systems (CMSs)
	IDEs: IntelliJ, Xcode, Android Studio, Visual Studio, Robotics Studio, Eclipse, MATLAB
	Hardware: Arduino, ARM MCB1700 Board, Altera DE2 FPGA board
	Software Development: Object-oriented programming principles, multi-threaded programming, kernel level programming, Model View Controller paradigm, Agile Scrum Development, Software Development Life cycle and Unified Model Language
	Application Software: Git, Tortoise SVN, Selenium, JIRA

PERSONAL PROJECTS	**Android Apps Contributed to:** Toronto Now, Tech Deals, Shopping Flyers Canada
	Google Play: https://play.google.com/store/apps/developer?id=CuriousDevAndroid
	Other Projects: ParkAid (Assistive Device for Parkinson's Disease Patients), Sunshine
	Github: https://github.com/iarif123
	Portfolio: https://iarif123.github.io

WORK EXPERIENCE

Automation Developer
Bazaarvoice, Austin, Texas *Sept 2015 – Dec 2015*

- Designed test modules for all layers of core web services (Unit Tests, Integration Tests and System Level Tests)
- Wrote orchestration code and set up test environments locally and on the cloud (Jenkins and Amazon Web Services)
- Automated integration of mock test data and created SDKs to efficiently add and remove test data while writing tests.
- Wrote UI code for test result analytics and algorithms to identify core processes that required extensive testing
- Wrote UI and load tests for core applications.

Application Developer
Validus Research Inc., Waterloo, Ontario *Sept 2014 – Dec 2014*

- Created a custom, single-page, responsive web application using AngularJS to replace a legacy line-of-business web application.
- Worked with a team of developers to upgrade an existing ASP.NET business web application for a critical 2014 release.
- Created new and updated existing ASP.NET template-based server controls that were used in various places throughout the application.
- Updated the data access layer when needed. Created and modified SQL DDL scripts.
- Added significant usability enhancements to legacy pages using dynamic HTML and the jQuery JavaScript framework.

Web Developer

Canadian Medical Protective Association, Ottawa, Ontario *Jan 2014 – April 2014*

- UI enhancements included drag-n-drop DOM elements, tree views, specialize etc.
- Crated HTML content for posting on CMPA's member portal, employee portal and public web site.
- Developed Web applications for internal CMPA users.
- Wrote unit tests and performed extensive debugging on existing and new code.
- Performed large scale code reviews and restructures.

Java Developer

eHealth Ontario, Toronto, Ontario *May 2013 – Aug 2013*

- Designed test modules for all layers of core web services (Unit Tests, Integration Tests and System Level Tests)
- Wrote orchestration code and set up test environments locally and on the cloud (Jenkins and Amazon Web Services)
- Automated integration of mock test data and created SDKs to efficiently add and remove test data while writing tests.
- Wrote UI code for test result analytics and algorithms to identify core processes that required extensive testing
- Wrote UI and load tests for core applications.

Quality Assurance Engineering Intern

STX ClydeUnion, Burlington, Ontario *Sept 2012 – Dec 2012*

- Participated in implementing test-plans and test-cases build on high-level and detailed design
- Broadly done manual testing, constraints verification testing and functional testing
- Performed test cases throughout the integration and regression environments
- Tested critical bug fixes and coordinated with developers in release if bug fixes meeting tight deadlines

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EDUCATION

Bachelor of Applied Science (BASc), Electrical and Computer Engineering,

University of Waterloo, Waterloo, Ontario *Sept 2011 – Apr 2016*

Relevant Courses:

Algorithm Design and Analysis, Cooperative and Adaptive Algorithms, Software Design and Architecture, Algorithms and Data Structures, Compilers, Databases, Operating Systems

Relevant Projects:

- Implemented Traveling Salesman Optimization Algorithms using Tabu Search, Simulated Annealing, Genetic Algorithms, Particle Swarm Optimization and Ant Colony Optimization
- Implemented the Kirsch Edge Detector algorithm in VHDL
- Used Altera's DE2 board to implement a simple WAV player
- Implemented stack, queue, hash table, tree and graph data structures in C++
- Programmed LEGO Mindstorm NXT using C# to navigate through a maze
- Designed a traffic light system on an Altera DE2 board using VHDL

AWARDS AND SCHOLARSHIPS

- President's Scholarship of Distinction, University of Waterloo
- Engineering International Student Scholarship, University of Waterloo
- Daily Star Award for achieving 1 A star and 2 A grades in A Levels
- Daily Star Award for achieving 8 A grades in 8 subjects in O levels