Sarim Zafar

3A Mechatronics Engineering

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Skills

- Java, JavaScript, C++, C, C#, MATLAB, HTML, CSS, Python, MySQL
- Frameworks/Libraries: NodeJS, Angular, Express, Meteor, jQuery, .NET FW/MVC, Ionic, OpenCV, Botkit
- Strong initiative and passion for learning, confident in leadership roles with a sound sense of ownership

Professional Experience

DeeSpace Labs — Software Product Prototyper, Deloitte Communitech Space   Kitchener, Winter 2016
- Prototyped and developed a real-time web application using the MEAN stack, MySQL, WebSockets
- Built a personalized slack bot implemented on top of a Rails application to conduct surveys
- Developed strong problem solving skills by working in a fast-paced and a rapidly changing environment

BDO Solutions — Software Engineering Intern   Mississauga, Summer 2015
- Successfully developed a real-time error tracking system for Bell Canada using C# and JavaScript
- Migrated an enterprise application using Microsoft BizTalk 2013 improving performance efficiency by 35%
- Demonstrated strong analytical skills and teamwork by completing independent tasks on different projects

Systemgroup Consulting Inc. — Full Stack Engineering Intern   Mississauga, Fall 2014
- Successfully built an MVC based .NET web application used for processing mining data using C# and MS-SQL
- Designed and developed the User Interface of a web application using HTML,CSS and jQuery
- Demonstrated strong learning skills and the ability to work efficiently under time constraints

RBC Global Technology and Operations — Quality Assurance Co-op   Toronto, Winter 2014
- Conducted independent testing of a major sales application and discovered over 75 defects
- Helped find a defect which could have exposed client data by applying my ability to focus on small details.

Projects

RetrospectIQ   Winter 2016
- Designed and built the complete back-end of the web application using Node, Express and Socket.IO
- Implemented front-end application controllers to maintain real-time data synchronicity using Angular.JS

ChatBot   Winter 2016
- Developed a chatbot that conducts surveys over Slack using Botkit framework and JavaScript
- Used Wit.AI to emotionally rank each response to decide on the corresponding set of questions to be asked

Computer Vision (UW Aerial Robotics Group)   Winter 2016 – Present
- Built the image import module which converts images sent from a drone to OpenCV format using C++
- Processed the imported images to geolocate drop-zones using C++ and MATLAB

Real-time Operating System   Fall 2015
- Developed a 2-D game using multi-threading, synchronization, hardware interrupts and priority
- Implemented Half-fit memory allocation program on a Keil FPGA using C

Education

Candidate for Bachelor of Mechatronics Engineering   University of Waterloo, 2013 – Present
- Minor in Cognitive Science
- Major GPA : 3.90/4.0

Additional Experience

Four-time Teaching Assistant (WEEF-TA)   Waterloo, 2015 – 2016
- Performed academic tutoring in Calculus (Math 116) and Electric Circuits (MTE 120/GE 123)

Image Pro (UW Aerial Robotics Group)   Waterloo, 2015 – 2016
- Designated computer-vision lead for UW Aerial Robotics Design Team