Mohammad Fahad Rahman

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Education

Bachelor of Applied Science, 3rd Year

2015-Present

University of Toronto

Department of Electrical and Computer Engineering

Relevant courses: Algorithms and Data Structures, Communication and Design, Engineering Strategies and Practices, Databases, Computer Organization, Operating Systems

Strategies and Practices, Databases, Computer Organization, Operating Systems

The Web Developer Bootcamp, Udemy Machine Learning, Stanford (Coursera course) Summer 2017 2017-Present

Technical Skills

Programming Languages: C/C++, Java, HTML, CSS, JavaScript, Matlab, Python, C#

Web Development: Bootstrap, nodeJS, MongoDB, SQL, jQuery, React

Hardware Description Languages: Verilog, Assembly, Arduino, Ni Multisim

Operating Systems: Linux, Microsoft Windows

Relevant Engineering Experience

Geographical Information System, Team Leader

Winter 2017

- Managed a team of 4 students to develop a geographical information system (GIS)
- Implemented complex algorithms such as Dijkstra's, A*, greedy, two-opt, simulated annealing to approximate solutions for a modified travelling salesman problem
- Optimized code to reduce run time of algorithms
- Designed and developed graphical user interface for the GIS
- Ranked 25th overall from a total of 100 teams in approximating solutions for the TSP

University of Toronto Robotics Association, Team Member

Winter 2017

- Collaborated with 4 team members to design an autonomous robot to compete in UTRA SumoBot competition
- Created and analyzed simulations to determine physical design on robot
- Evaluated robot design by modelling it on SolidWorks
- Implemented battle logic into Arduino microprocessor
- Performed rigorous battle logic tests
- Debugged battle logic code to fix performance issues

Relevant Engineering Experience Continued

Databases Course, Team Member

Fall 2017

- Learnt how to run complex queries on different types of schemas
- Created an application to run queries given user input by embedding SQL in a java application
- Learnt how to define schemas using SQL
- Implemented a postgreSQL student database using design methods such as Boyce-Codd Normal Form, Third Normal Form, the E/R model etc.

Relevant Project Experience

YelpCamp Web App, Personal Project

Summer 2017

- Created a web application that functions as a ratings website for camping spots
- Designed front-end using CSS, Bootstrap, Semantic UI
- Developed back-end using node.js and RESTful routing conventions
- Created and maintained databases for users, campgrounds and comments using MongoDB to associate all the data sets
- Enabled user authorization to website by utilizing Passport.js
- Deployed website using Heroku (**available at** https://hidden-scrubland-41124.herokuapp.com)

Patatap Clone, Personal Project

Summer 2017

- Created a basic clone of the Patatap musical animation web application
- Used paper.js and howler.js to create animations and apply sound effects to application
- Designed a dynamic front-end application using jQuery for DOM manipulation

Facebook Chatbot. Team Member

Winter 2017

- Created a Facebook Messenger chatbot that can determine the mood of the person chatting with it
- Implemented IBM Watson's text analyzer to analyze text messages sent to it
- Used text analyzer to detect distress signals in messages and connect person to appropriate helpline/authority
- Deployed application using Heroku

Additional Employment Experience

Pita Land, Staff Member

Summer 2017

• Worked part-time as a general worker to open store each shift, serve customers and clean the store

Kitchener Superstars, Sales Representative

Summer 2015

- Interacted with home owners going door-to-door to offer driveway paving services
- Co-wrote a sales script with supervisor that increased sales by 5%