

RON TIEU

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EDUCATION

Ryerson University

September 2015 – April 2019

Candidate for Bachelor of Engineering (Computer Engineering)

SKILLS

Programming Languages

Java, Python, C/C++, Javascript

Technologies | Tools | Programs

Linux, Windows, Git, SQL, jQuery, HTML, CSS, VHDL, x86/ARM Assembly, GNS3, MATLAB, AutoCAD, Microsoft Office

Personal Skills

Hard-working, Motivated, Independent, Perseverant, Collaborative

PROJECTS

Predicting Twitter User' Interests Using Linked Prediction

- Used the TagMe API to parse information from Twitter into an SQL file
- Clustered the information from Twitter using LDA topic modelling and created Dynamic Heterogeneous Information Networks from this model
- Applied the Block-Coordinate Gradient Descent algorithm on the data to find the latent spaces for the model and made predictions based on the model

RCCH Messenger

- Created an application where multiple clients could connect to a chatroom hosted by a server where messages sent would be multicast from the server to the other clients
- Messages and user information were stored inside of an SQL database from the server

Multicasting App

- Created a multicasting application that would read an input file with the configuration of the network and multicast from the source to the other nodes using the shortest path
- Multicasting was implemented using PIM-DM Multicasting and Dijkstra's algorithm

Media Center

- Implemented a media center onto an ARM Cortex-M3 microcontroller
- Functionality of the media center included a photo gallery, music player, and implementation of the classic game snake

Peer-to-Peer File Transfer Application

- Index server running keeps track of all the active files in the client servers
- Clients can to send requests to the index server to register, search, upload, and download content using both TCP and UDP file transfer protocols