Anson Tang

2A Honours Computer Engineering

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About Me

Technical Skills C#, .NET, C/C++, Oracle DB, SQL Server, Azure, Bash, HTML/CSS, Javascript, Python
Languages Conversational Proficiency in Cantonese
Interests Soccer, Basketball, Sneakers, Music, Photography

Work Experience

Computer Engineering Co-op
Woodbridge Foam Group Mississauga,ON (September 2018 – December 2018)

- Set up Impinj RFID reader software infrastructure to detect zone transition for manufacturing parts
- Implemented and developed .NET application utilizing message queueing (AMQP 1.0) to receive real-time events from RFID reader
- Sent messages and data to Azure cloud platform for time series analytics and SQL data store
- Performed engineering test analysis on efficiency of chemical pourhead robots comparing actual and predicted pour time
- Learned Industry 4.0, Kaizen, 5S, and Lean Manufacturing concepts

Computer Programmer Specialist
Regional Municipality of York Newmarket,ON (January 2018 – April 2018)

- Developed and automated water and wastewater facility calculations in PL/SQL
- Improved problem solving, debugging skills, database work-flow design, fixing its bugs, and exception handling for future debugging
- Added new features, such as calendars and dashboards, using HTML, CSS, and Javascript
- Review documents and project plans by writing up-to-date reports for supervisors

Personal Projects

Facility Digital Signage (Woodbridge)

- Set up network booting for Raspberry Pi using DHCP, TFTP, and NFS server setup on Ubuntu for digital signage use in plants

Personal Website

- Got exposed to web development and the basics of HTML, CSS, and Javascript to develop a portfolio website
- Learned the subtleties and details to create an aesthetically pleasing user interface

Social Network Visualization

- Utilized Node.js and Express framework to develop a web application for visualizing social relationships to gain a better understanding of graph theory and algorithms
- Implemented Cytoscape.js open source library to display and interact with graphs

Traffic Light Simulator

- Designed and constructed a traffic light simulation using Arduino circuitry
- Used LED lights, resistors, combinatorial logic, and coded in C language

Music Library

- Created a Python program which sorts by title, song, artist, etc.
- Manipulated raw data from .tsv file in a well-formatted manner

Education

University of Waterloo Waterloo, ON (2017–Present)

- Candidate for Bachelor of Applied Sciences
- Accepted with a President's Entrance Scholarship