YAN REN

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OBJECTIVE

Full-time position in the field of software development, starting from May/June 2018.

SKILLS

Languages: Java, Python, C/C++, VHDL, MATLAB
Web: JavaScript, HTML, CSS
GitHub: https://yan-ren.github.io/yan-profile
OS & Tools: Linux, Git, PostgreSQL, MongoDB
Eclipse, Visual Studio, Pycharm, OpenCV, JUnit
Hardware: Altera DE1 FPGA, STM32F4 MCU

EDUCATION & HONORS

Bachelor of Computer Engineering Co-op Program

McGill University, Montréal, Québec — Sept 2013 - May 2018(expected)

- Dean's Honour List and a cumulative GPA of 3.69/4.00 — 2013 - 2018
- Engineering Class of 1953 SURE Award — 2015, 2016

RELATED WORK EXPERIENCE

QA AUTOMATION INTERN - Vigilant-a DRW Company - Montréal, QC — May 17 - Aug 17

- Python based project DDT automation test case; React/Redux based front-end automation unit test case.
- PowerShell scripting for TeamCity & Slack integration.

QA AUTOMATION INTERN - Kronos Canadian Systems Inc. - Montréal, QC — Sept 16 - April 17

- Java programming for improving TestNG API based automation framework
- Agile development of backend automation testing (REST API)

SOFTWARE DEVELOPMENT INTERN - BioMindR, TandemLaunch Inc. - Montréal, QC — June 16 - Sept 16

- Python GUI by using PyQt, for converting, manipulating, and analyzing the data generated by Gnuradio-Companion
- Investigated the function of USRP board and achieved basic DSP in Gnuradio-Companion

RESEARCH STUDENT - Software Radio Lab, McGill University - Montréal, QC — May 15 - Dec 15

- Assisted research associates to implement wireless communication protocols
- Developed the software test tools using Visual Basic and performed functional and performance testing for various protocols of ESP8266 Module

RELATED PROJECTS

Speech-to-Text Web Application — Sept 17 - current

- Worked on Node.js backend with Google Cloud Storage and Google Cloud Speech API, collaborating with Radio Canada Digital R&D team to develop a web based speech-to-text application

OpenCV Face Recognition and Pose Estimation — Feb 16 - May 16

- Intro to Computer Vision course final project: in OpenCV C++, implemented Eigenfaces, Local Binary Pattern histograms and Bag of Visual Words for face recognition and pose estimation

A multi-radio Communications System for Patient Vital Sign Capture — May 15 - Dec 15

- Implemented TCP/UDP protocol for ESP8266 inter-module transmission, using Arduino based on AT firmware and Lua based on NodeMCU firmware; protocol performance analysis