

Shane Dharan

SOFTWARE ENGINEER · NEW GRADUATE

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“Make the change that you want to see in the world.”

Technical Skills

Languages: C, C++, Java, MATLAB, Python, XML, MySQL, VHDL

Platforms: Windows, Linux, Android

APIs: Twilio, Dropbox, Swing, OpenCV

Relevant Work Experience

Software Developer Intern

Toronto, ON

QUESTRADE

June 2015 – November 2015

- Implemented multiple features for operators of the high frequency trading machine to improve position awareness.
- Reduced processing time for analysis on trading machine status from 1 minute to 5 seconds.
- Tested and debugged several critical components using logging and system level testing.

Selected Personal Projects

Gaze Controlled Mouse Cursor

C++ DESKTOP APPLICATION

January 2016 - April 2016

- Developed a pupil detection algorithm to track the movement of the eye.
- Implemented a gaze estimation algorithm utilizing a several research papers.
- Created a unique glove that allows user's to perform basic mouse operations while keeping hands stationary on the keyboard.
- **Skills: C++, OpenCV, Distributed Collaboration, Algorithms.**

Remote Security Camera

PYTHON DESKTOP APPLICATION

January 2016

- Developed a motion tracker that can turn any webcam into a remote security camera.
- Implemented user controls and alerts via SMS.
- Implemented cloud storage for user to view motion recordings remotely.
- **Skills: Python, OpenCV, Flask, Multi-Threading.**

Memory Box

ANDROID APPLICATION

November 2015

- Developed a memory logger application for Android to record and recall memory notes via voice.
- Created a REST service to log and retrieve individual patient data.
- Implemented portal to show statistical feedback of user's memory progression and habits.
- **Skills: Python, Android, Flask, Voice Recognition, Client-server design, MySQL, Java.**

Education

B.Eng. in Computer Engineering

Guelph, ON

UNIVERSITY OF GUELPH

Sept. 2011 - April 2016

- Specialized in the software engineering stream.

Activities & Interests

IEEE University of Guelph Student Branch

Guelph, ON

VICE-CHAIRMAN

September 2015 – April 2016

- Organized Guelph's NXP Cup, a line following racecar event.
- Lead “Build An App” Seminar for the Android platform with 25 participants.
- Organized “Build a Robot” Seminar with 50 participants.