Aditya Thakkar

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Relevant Skills

Coursework	Software	Hardware	Currently Learning
Structures/Algorithms, Microprocessors, Statistics, Microelectronics, Logic Design	Java, C/C++, HTML/CSS, Javascript, Python, MATLAB/Simulink, Linux, SQL, Scikit-Learn, Bootstrap	Arduino, Transistors, Motor Control, Robotics, Sensors, Bluetooth	MEAN Stack Development, Tensorflow

Education

McMaster University — Expected May 2018

- **Bachelor of Engineering (Co-op)** - Electrical and Biomedical Engineering
- **Awards**: Dean's Honour List, McMaster Entrance Award

Stanford University – Coursera — June 2017

- **Machine Learning**

Experience

Research Student — May – Aug 2016
Hospital for Sick Children (SickKids) — Toronto, ON

- Designed and implemented a **robotic etching system** for cranial remodelling using **Solidworks**
- Developed mathematical model to simulate entire system using **MATLAB/Simulink**
- Used **Arduino** to control **stepper/ DC motors** and interface with the control computer
- Added silicone **3D functionality** to existing 3D printer

Quality Assurance Analyst (Co-op) — May - Aug 2015
PointClickCare — Mississauga, ON

- Worked in a small **team** to write code for the tax letters functionalities on the PCC web application using **Java**
- Wrote automated **test scripts** to thoroughly test web application scenarios in **Java** using **Eclipse** and **SVN**
- Used **SQL** to access and modify databases
- Used **Jira** and **TestRail** to monitor task progress and ensure peak team efficiency

Relevant Projects

- Movie Recommendation System
  - Recommend movies to user based on past movie ratings using Python's Scikit Learn and User Collaborative Filtering
- Data Acquisition and Relay System
  - Used Esduino to get voltage signal from a transducer, display it in real time using C, MATLAB and Bluetooth
- Design of a Spinal Cord Neurostimulator for Rehabilitation
  - Implantable device which stimulated the site of injury to aid in rehab: *https://tinyurl.com/lv7pw2p*

Leadership

- President - Bioengineering At McMaster Society (BEAMS) — Mar 2016 – April 2017
  - **Lead a team of 15 executives** to run events for biomedical engineering students at McMaster University
  - **Doubled student attendance** at all events through better outreach strategies and event planning