# Dhruv Dhawan

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## Education & Certifications

**Computer Engineering | York University**                                      **May 2021**

Specialized Honours Bachelor of Engineering (Honours BEng)

· Related coursework: Computer Architecture, Digital Communications, Software Engineering Requirements, Digital Logic Design, Relational Databases, Networking.

**M220JS: MongoDB for JavaScript Developers**                                    **September 2021**

Learnt the essentials of **Node.js** application development with **MongoDB**.

**The Complete 2021 Web Development Bootcamp**                                    **October 2021**

Learnt full-stack Web Development and related technologies to build RESTful full-stack applications that can be deployed to the web. Technologies learnt: **HTML| CSS 3 | Bootstrap | JavaScript ES6 | jQuery |Git, GitHub and Version Control | Node.js | NPM | Express.js | EJS | REST | APIs | SQL | MongoDB | Mongoose | Firebase | React.js | React Hooks.**

## Skills & Interests

**Skills**: JavaScript | HTML | CSS | C | C++ | Verilog | SQL | Shell | MATLAB | Java | Python | Bootstrap | jQuery | Git, GitHub and Version Control | Node.js | NPM | Express.js | EJS | REST | APIs | SQL | MongoDB | Firebase| React.js | React Hooks.

**Interests**: Sketching | Reading

## Project Experience

**Hospital Communication System**:

Developed a web application for an enhanced communication channel between nurses and physicians. Tech used: **React, Express SQL, Postman, figma, Node.js.**

**Portfolio Website:**

Developed a fully functional web portfolio from scratch with intractability. Tech used **HTML, CSS, JS, Bootstrap, figma, Node.js**

**Weather App:**

Developed a **weather app** that provides user **current weather** details of the city requested, for cities with same name, country code can be specified. Tech used: **HTML, CSS, JS, figma.**

**Traffic Light System**:

Created a **traffic light controller** using an **FPGA**. Made **finite state machines**. The output of the system depends on the current state and the previous state of the machine. Tech used: **Verilog, Quartus II, Alterra DE II board, Qsim.**

## Leadership Experience

**President Electrical Engineering Club for Students (EECS)**                     **(Sept'17-Nov'18)**

Organized meet and greets, workshops and tutorials for the club. Co-constructed a transmitter device tosend signals for demonstration purposes, taught signals basics to first and second-year students.

**Orientation Leader for Lassonde School of Engineering**                         **(2017, 2018)**

Organized meet and greet, team-building and networking events for successful transition of 350+incoming students to the Lassonde School of Engineering. Showed students where to contact eachdepartment for any queries that they might have.

**Volunteer Researcher at the York University Observatory**                       **(Oct '17 – Jan '18)**

Set up 60 cm telescope and collected data on pulsing stars for research. Utilized a sensitive charged-couple device (CCD) for collecting the data on the stars.

**Attended the EWB conference on sustainable development (Xchange)**              **(Jan' 2019)**

Attended and contributed to sustainable developmental ideas for a better future for the planet.