

# MARVIN DALE

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## Profile

Undergraduate engineering student with a strong interest in programming and software development, motivated to develop professional skills and contribute to the success of a company.

## Education

**National University of Ireland, Galway**

**Expected grad: May 2022**

Bachelor of Engineering (Honours), Electronic & Computer Engineering

**Grades:** 1<sup>st</sup> year & 2<sup>nd</sup> year, **2.1**

**Relevant Courses:** Data Structures and Algorithms, Object Orientated Programming, Statistics, Microprocessor Systems, Communication Systems, Applied Mathematics I & II

**Second Level Education:** Colaiste Cholmcille, Ballyshannon, Co. Donegal, **CAO Points: 456**

## Skills

**Programming Languages:** Java, JavaScript, HTML, CSS, C, MATLAB, R

**Tools:** Node.js, Git, Arduino IDE, jQuery, Bootstrap, Circuit Lab, LabView, AutoCAD, Microsoft Office

## Projects

**PokéDex**, developed a website to search for Pokémon, implemented by sending a GET request to the PokéAPI and parsing the response to JSON, used the JSON data to make a Pokémon object displaying it's artwork, name and other information. **Node.js, Express.js, Bootstrap, HTML, CSS**

**Expandable Binary Tree Guessing Game**, designed a program implement an expandable binary tree that can be serialised and saved to a text file and loaded later on. **Java**

**Simon Memory Game**, the user must remember the sequence of buttons that flashed and repeat them. **JavaScript, HTML, CSS, jQuery**.

**Lasor Record Player**, converted **Arduino**'s serial data output to bytes to create MIDI packets, connected the MIDI output to a Digital Audio Workstation using a virtual MIDI port.

**Arduino Polo 3pi Robot**, modified Sample line follower code, calibrated LDRs to find a light source, soldered LDRs to the robot. **Arduino**

**Truck Efficiency Race**, used **MATLAB** to find the efficiency of different gear ratios with varying payloads over a constant distance.

## Work History

Summer 2019/2020, Creevy Pier Hotel (Kitchen Porter) – Creevy, Donegal

Summer 2018, Allingham Arms Hotel (Kitchen Porter) – Bundoran, Donegal