

# Ross McIntyre

Full Stack Web Developer / Software Engineer

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## Profile

Since graduating with a degree in Geology in 2013, I have been employed as a Geotechnical Engineer. This is a career I have been successful in. However, a self-directed project to automate data analysis (simply through Excel) led to an interest in programming. I am a self-taught programmer, currently enrolled on the University of Manchester Full Stack Coding Bootcamp (part-time, evening and weekends) which I will complete in March 2021.

I am able to learn and adapt to new languages, technologies and frameworks quickly. I am highly passionate and motivated about programming and I am therefore looking to move away from my current career and I am seeking my first role in software development.

## Technical Skills

### Front End Web Development

- Responsive web design with mobile first UI/UX focus using HTML5/CSS3 and Bootstrap.
- Dynamic web API implementation JavaScript/jQuery and React.js

### Back End Web Development

- Back end web development using Node.js and Express.js.
- Database design and management using MongoDB.
- Familiarity with server-side HTML templating engines such as Pug and Handlebars.

### General Purpose Programming

- Functional Object-Oriented Programming with JavaScript and Python.
- Version control utilising Git and GitHub/GitLab.

## Projects

### Pub Quiz Application - <http://pub-quiz-builder.herokuapp.com/>

- A full stack web application utilising Node.js/Express.js for back end with a MongoDB database, deployed using Heroku. New web pages are rendered using the Pug HTML templating engine.
- The user is able to dynamically create, edit, play their own quizzes, which can be submitted and saved to a MongoDB.
- The front end is constructed with HTML/CSS and JavaScript/jQuery.

Imitation Barbershop Website - <https://rossmcintyre.tech/barbershop-website/barbershop.html>

- A website for a mock barbershop website constructed with jQuery and HTML/CSS.
- Mobile first, responsive design with intuitive UI/UX.

Further examples of my software development projects are available on my portfolio website ([www.rossmcintyre.tech](http://www.rossmcintyre.tech)) and my GitHub profile ([www.github.com/Ross-mc](https://www.github.com/Ross-mc)).

## Education

University of Manchester – 2020-2021

Full Stack Coding Bootcamp – A part time course taking place at evenings and weekends which gives me the flexibility to work full time whilst completing the course.

The technologies and frameworks covered in the course include: HTML5, CSS3, JavaScript, jQuery, Bootstrap, Express.js, React.js, Node.js, MongoDB and MySQL.

University of Liverpool – 2010-2013

BSc (Hons) in Geology 2:1

Winstanley College – 2007-2009

A-Level: Geology (A), Business (A) and Economics (A), AS-Level: Mathematics (B)

The Byrchall High School – 2002-2007

GCSE: 11 GCSEs including 3A\*s, 6As, 2Bs

## Employment History

GeoDyne Ltd – Senior Geo-Environmental Engineer September 2013 to Present

I have been employed as a Geo-Environmental Engineer at GeoDyne for 7 years, beginning as a Graduate Engineer and with successive promotions I am now a Senior Engineer. As a Senior Engineer, I am responsible for managing a team of Junior Engineers and Contractors to complete complex ground investigation projects. I produce interpretative reports for Clients and Regulators. I oversee projects from initial tender, through project planning, implementation and finally completion and submission.

Since January 2019, I have been managing the North West office of GeoDyne, a new venture as the company is primarily based in the East Midlands. I am responsible for marketing the company in the region to bring in new Clients, as well as expanding our geographic reach with existing Clients.

In addition to marketing and project management, my role is also technical and involves assessment of data obtained during the investigation works. One aspect of this work is the production of Ground Gas Risk Assessments. The data for this assessment is stored in a basic Excel spreadsheet that dates from 2001. This data was then processed via hand and entered in to reports manually. I took it upon myself to significantly update the datasheets to conform to current guidance and to automate the entire assessment. This was achieved through 'If' functions which gradually became more complicated as I added more features. This project is what initially sparked my interest in programming and led me to explore JavaScript and Python.