

## Matthew Thomas McGregor

### BSC Computer Science with Web Development with First Class Honours

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## Experience

- Designing and building an interactive virtual guided tour website for Seaton Delaval Hall as my final year General Computing Project which involved creating a mobile-friendly website using HTML, CSS, JavaScript and PHP as well as a REST API connected to a MySQL database. The interactive website made use of scrolling animations using the ScrollMagic JavaScript library alongside speech synthesis and ambient sounds using Amazon Polly and the howler.js JavaScript audio library. It was showcased as part of Northumbria University's 2022 REVEAL Showcase: <https://www.northumbria.ac.uk/about-us/news-events/news/matthew-mcgregor-reveal-case-study/>
- Building websites using HTML, CSS, JavaScript and PHP connected to MySQL databases.
- Some experience using React and creating a REST API as part of Web Application Integration module.
- Some experience setting up and running a Linux virtual machine on Microsoft Azure to host a website which connected to Twitter API and Google Maps API.
- Designing and working as part of a team creating a mock website offering students short courses to help them to cope with their university studies for Software Engineering Practice module.
- Designing and creating a mock mobile application with a client for women struggling with a cancer diagnosis using React Native connected to a REST API as part of Team Project and Professionalism module.

## Voluntary Work

2022-Present     **St. John's Church, Hebburn**  
**Ministry Intern**

Key responsibilities have included:

- Maintaining and modernising the church website to give it a modern feel and to be mobile-friendly.
- Administrative tasks within church life (producing print publications and social media adverts for events, creating videos and preparing slides for weekly services).
- Setting up and maintaining our service livestream

- Working alongside the staff team to obtain a better understanding of how a church operates.
- Writing and delivering talks for children, youth and adults.
- Attending a weekly training course to meet with other ministry interns and to grow in understanding.

## Education

2018 – 2022      **Northumbria University, Newcastle-upon-Tyne**  
**BSc Computer Science with Web Development with First Class Honours**

Ede & Ravenscroft Prize for best academic performance on the Computing & Information Technology Foundation Year programme

2016 – 2018      **Newcastle Sixth Form College, Newcastle-upon-Tyne**  
A-levels: Computer Science – B, Physics – D, Maths – E  
AS level: Chemistry – D

2011 – 2016      **Jarrow School**  
GCSEs: 1 A\*, 5 As, 3 Bs and 1 C

A\* in Biology  
A in Chemistry, English Language, English Literature, Mathematics and Physics  
B in Computer Science, Geography and Spanish  
C in Music

Cambridge National Level 2 Distinction\* in Creative iMedia  
Level 2 Award in Algebra

## Work experience

2018 **HMRC Digital Delivery Centre, Longbenton for a day**

Having known someone who works there, I was invited along to give me an idea of how the Digital Delivery Centre runs. I learned about the SCRUM development methodology, I was present at one of their daily meetings, and I spent time with different members of staff finding out their roles within the business.

2015 **Siemens Walkergate, Newcastle for one week**

I spent time with the IT Business Support team, which was responsible for creating applications for the Walkergate site and for managing IT-related queries within the site, such as setting up new smartphones for employees in Siemens and fixing technical issues.

I was introduced to and worked with their Microsoft SharePoint intranet to update staff profiles as part of transferring their existing intranet to the newest version of SharePoint.