

George Church

((Address))

✉ geojohchu@gmail.com

☎ ((Phone number))

🌐 www.georgechurch.co.uk

🐙 github.com/gchurch

in [linkedin.com/in/georgechurch1/](https://www.linkedin.com/in/georgechurch1/)

EDUCATION

University of Bristol

MEng Computer Science (Upper Second-Class Honours)

Bristol

October 2014 - June 2019

Greenshaw High School

A levels (Maths A*, Further Maths A*, Physics A, Chemistry A)

Sutton, London

2012 - 2014

KEY SKILLS

Units studied include: Data Structures and Algorithms, High Performance Computing, Machine Learning, Web Technologies, Computer Graphics, Cloud Computing, Deep Learning, Advanced Computer Architecture, Systems Security

Languages: JavaScript, Java, C#, C/C++, Python

ACADEMIC PROJECTS

Exchange Simulator (Master's Thesis)

Feb 2019 - May 2019

- Researched the technical details of the London Stock Exchange's Turquoise Plato exchange
- Created a minimal simulator of the exchange using Python
- Ran simulations on the exchange with automated traders and examined the results

Cloud Computing Project

Oct 2018 - Dec 2018

- I created a simple, scalable web application using Node.js and Express which runs on AWS services.
- The web server is run using Elastic Beanstalk. Images for the website are stored in an S3 bucket. DynamoDB is used for the database.
- I performed load testing of the web application using Apache Jmeter.

Superscalar Processor Simulator

Oct 2017 - Dec 2017

- I created a simulator of a superscalar processor using C++.
- Features of the processor include a 5-stage pipeline, reservation stations, multiple execution units, out-of-order execution, register renaming and simple branch prediction.
- I also created my own simple assembly language and an assembler. I wrote a few assembly language programs for the processor to execute.

Reality Bomb - A Mobile AR Game

October 2016 - May 2017

- I Worked in a group of six students to build an augmented reality game for iOS devices.
- The game was created with the Unity Game Engine.
- I mainly worked on the physics, game logic and networking of the game using C#

Web Technology Project

Feb 2017 - May 2017

- Created a website using Node.js and the Express web framework that allows users to upload images and place comments
- Used MySQL/SQLite for the database
- Used CSS to create a simple responsive web design

Computer Graphics

Feb 2017 - May 2017

- Created a rasterizer and a raytracer using C++, SDL and GLM.
- The rasterizer performed clipping and texture mapping.
- The raytracer performed antialiasing, soft shadows and bounding box optimisation.

Cotswold Water Park App

Oct 2015 – May 2016

- Created an app for the Cotswold Water Park in a group of six students
- The app allows visitors to navigate their way around
- The app was created with X and Y

Interests

- I am currently learning German
- I enjoy regularly going to the gym
- Enjoy playing football and table tennis
- Enjoy learning and playing songs on the piano